Koken®

Koken 2768

Koken
JAPAN

Koken TOOLS OF CONVINCI

WARRANTEE

The trade mark **Koken** *is your unqualified warrantee against any defect in material or workmanship.*
Each **Koken** *tool is built to more than meet the requirements of its intended use*
and is carefully checked before leaving the factory.
Any **Koken** *tool which fails because of defective material or workmanship*
will be repaired or replaced through your **Koken** *dealer,*
to the exclusion of any further liability.

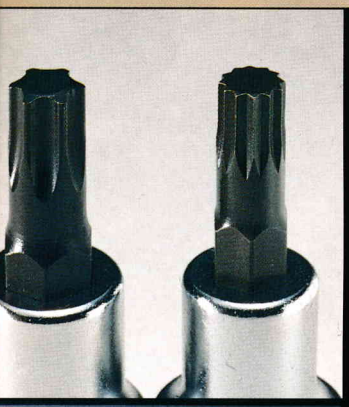
Koken *TOOL CO.,LTD.*

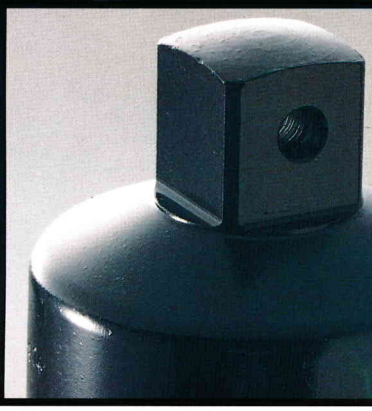
G QUALITY

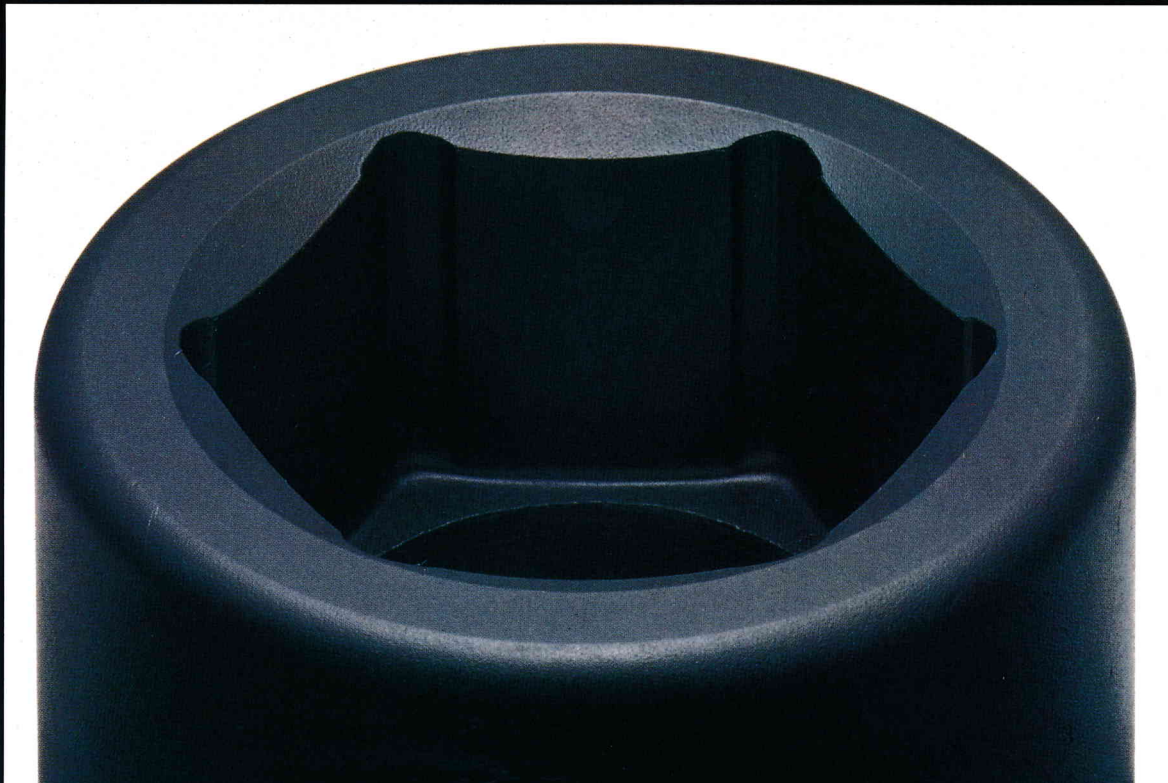
HAND SOCKET

IMPACT SOCKET

POWER SOCKET







Koken SAFETY ADVISER

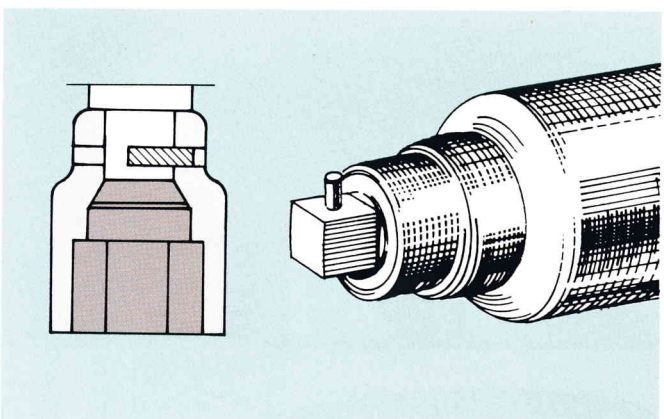
GENERAL

(a) HAND Sockets, POWER Sockets, IMPACT Sockets, each of them is built in design, material and hardness for a specific application. Never substitute a HAND socket for a POWER socket or an IMPACT Socket, or a POWER SOCKET for an IMPACT socket.
(b) Make sure you use the right type socket, whose opening fits the nut.
(c) Never hammer a socket on a nut.
(d) Adaptors are to be used reasonably. Be reminded that high torque potentials are reached when using a "down" adaptor, a bigger sized handle to a smaller drive socket. Always stay within safe limits.
(e) Inspect and clean the socket periodically.
(f) Sockets showing cracked walls, battered points or other marks of wear are to be replaced.
(g) The combination of several short extensions instead of one correct sized one is to be avoided.

The Koken range offers innumerable combinations of sockets and accessories. Always use your own common sense and select the safest for any good job.

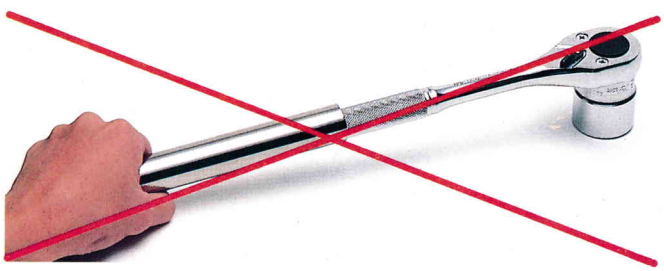
POWER SOCKETS

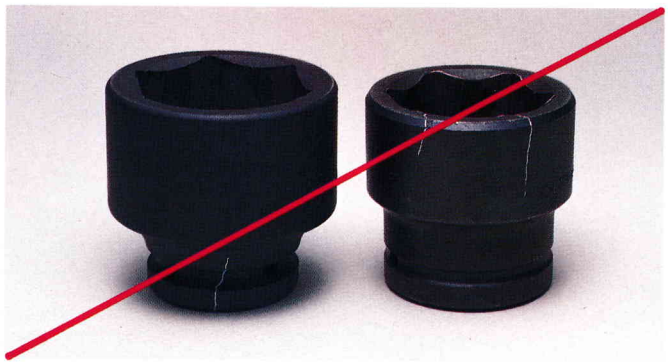
(a) POWER sockets are to be used on air or electric nut runners only.
(b) Observe and check that the locking hole in the square drive end is engaged with the ball or pin attachment of the extensions and/or nut runners.



RATCHETS/HANDLES

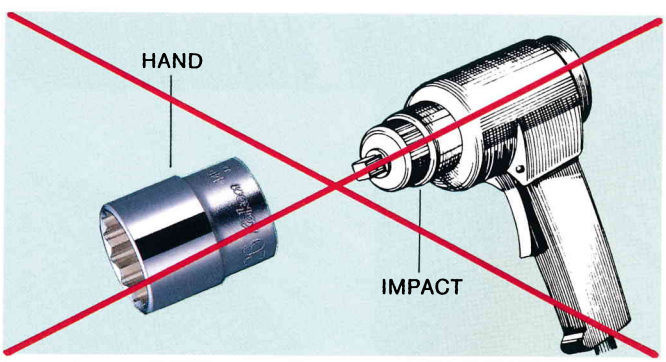
(a) A ratchet is not a hammer.
(b) Before applying full power to a ratchet, use first just a little bit of pressure only for making sure that the gear is fully engaged with the pawl and turns into the desired direction.
(c) Never use loose pipes or other improvised attachments on handles for increased leverage.
(d) Always adjust your stance to prevent a fall, if something slides or breaks loose.
(e) Plastic or rubber handles are not intended to act as insulation.





IMPACT SOCKETS

(a) For use on electric or air IMPACT wrenches select heavy duty IMPACT sockets only.
(b) Never hold a spinning IMPACT universal joint socket in your hand.
(c) Rings and pins lock the IMPACT socket and IMPACT accessory to the IMPACT wrench. Make sure to use the correct size of ring and pin and that once in position the pin is fully covered by the ring.
(d) When using nut runners or IMPACT wrenches wear safety goggles.



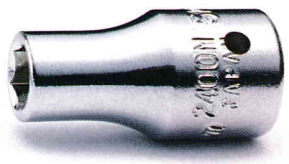
Koken®

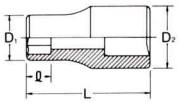
HAND SOCKETS

Please observe our safety advices page 4.

SOCKETS

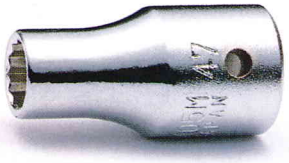
2400M/2400A 6-point Sockets

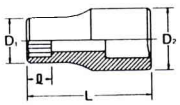




2400M (mm)	2400A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
3	1/8	5.2	11.2	3.4	22	7.5
4		6.7	11.2	3.8	22	8
4.5		7.1	11.2	4.1	22	8
5	3/16	7.7	11.2	4.3	22	8
5.5		8.3	11.2	4.8	22	8.5
	7/32	8.8	11.2	4.8	22	9
6		9	11.2	5.3	22	9
	1/4	9.6	11.2	5.3	22	9
7	9/32	10.2	11.2	5.8	22	9
8	5/16	11.3	12.0	6.8	22	10.5
9	11/32	13	12.0	7.2	22	12
10	3/8	14.3	12.9	8.2	22	14.5
11	7/16	16	14.3	9.2	22	18
12		17.4	16.0	10.2	22	23
13	1/2	18	16.4	10.2	22	22.5
14	9/16	19.3	17.9	12.2	24	29.5

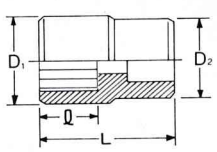
2405M/2405A 12-point Sockets





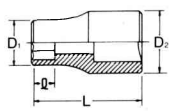
2405M (mm)	2405A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
	1/8	5.2	11.2	3.4	22	7
4		6.7	11.2	3.8	22	7.5
4.5		7.1	11.2	4.1	22	7.5
5	3/16	7.7	11.2	4.3	22	8
5.5		8.3	11.2	4.8	22	8
	7/32	8.8	11.2	4.8	22	8.5
6		9	11.2	5.3	22	8.5
	1/4	9.6	11.2	5.3	22	9
7	9/32	10.2	11.2	5.8	22	9
8	5/16	11.3	12.0	6.8	22	10.5
9	11/32	13	12.0	7.2	22	10
10	3/8	14.3	12.9	8.2	22	14
11	7/16	16	14.3	9.2	22	16
12		17.4	16.0	10.2	22	21.5
13	1/2	18	16.4	10.2	22	22
14	9/16	19.3	17.9	12.2	24	28.5

2415M/2415A 8-point Sockets



2415M (mm)	2415A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
6		11.4	12.0	5.3	22	13
	1/4	11.7	12.0	5.3	22	13.5
8	5/16	14.3	12.9	6.8	22	16.5
	3/8	17.4	16.0	8.2	22	25.5
10		18.0	16.4	8.2	22	27

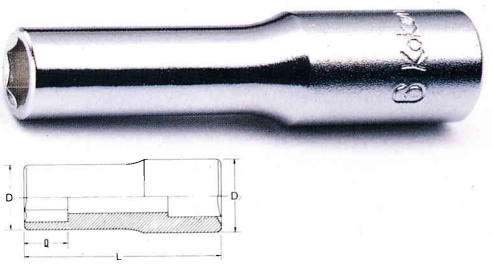
2400W BA Sockets



2400W	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
8	5.8	11.2	3.5	22	7
7	7.1	11.2	4.1	22	7.5
6	7.7	11.2	4.3	22	8
5	8.3	11.2	4.8	22	8.5
4	9.6	11.2	5.3	22	9
3	10.2	11.2	5.8	22	9
2	11.3	12.0	6.8	22	10.5
1	13.0	12.0	7.8	22	10.5
0	15.1	13.6	8.2	22	15.3

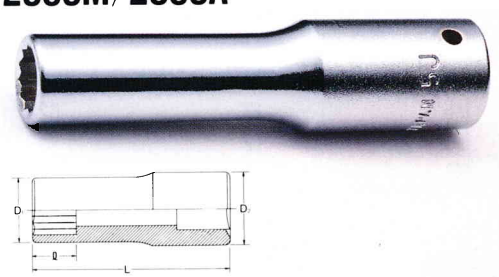
SOCKETS

2300M/2300A 6-point Deep Sockets



2300M (mm)	2300A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
3		5.2	12	4	50	17
	1/8	5.4	12	4	50	17
4		6.8	12	4	50	20
5	3/16	8.0	12	5	50	20
6		9.3	12	6.5	50	24
	1/4	9.8	12	6.5	50	25
7	9/32	10.9	12	7	50	25
8	5/16	11.6	12	8.5	50	29
9	11/32	13.0	12	8.5	50	30
10	3/8	14.0	12.9	10	50	34
11	7/16	16.0	14.3	11.5	50	42.5
12		17.0	15.2	13	50	50
13	1/2	18.0	16.2	13	50	50
14	9/16	19.0	17.1	16	50	55

2305M/2305A 12-point Deep Sockets

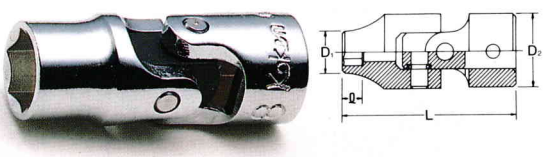


2305M (mm)	2305A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
	1/8	5.4	12	4	50	17
4		6.8	12	4	50	23
5	3/16	8.0	12	5	50	23
6		9.3	12	6.5	50	23.7
	1/4	9.8	12	6.5	50	25
7	9/32	10.9	12	7	50	26
8	5/16	11.6	12	8.5	50	28.5
9	11/32	13.0	12	8.5	50	26.5
10	3/8	14.0	12.9	10	50	33.5
11	7/16	16.0	14.3	11.5	50	30
12		17.0	15.2	13	50	45
13	1/2	18.0	16.2	13	50	53.5
14	9/16	19.0	17.1	16	50	55.6

2425 Hex. Lobular Sockets

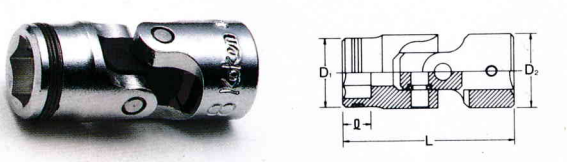
2425	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
E 4	5.4	11.2	3.2	22
E 5	6.7	11.2	3.2	22
E 6	7.7	11.2	4.0	22
E 7	8.3	11.2	4.8	22
E 8	9.6	11.2	5.6	22
E10	11.3	12	6.4	22

2440M/2440A Universal Sockets



2440M (mm)	2440A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
4		6.5	13	3.5	31.5	17
5		7.7	13	3.5	31.5	17
6	1/4	9	13	4.5	32.5	18
8	5/16	11.3	13	6	33	19
9		13	13	6	33	20
10	3/8	14	13	7	33	20
11	7/16	15.3	13	8	35	21
12		16.7	13	9	36.5	21
13	1/2	17.5	13	10	38	26
14	9/16	18.6	13	11	39	28

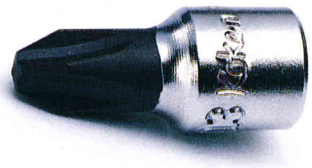
2441M Nut Grip Universal Sockets

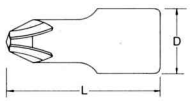


2441M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
8	12.3	13	5	31	19
10	14.5	13	6	32.5	21
12	16.8	13	7	34.5	21
13	18	13	8	35.5	21

BIT SOCKETS

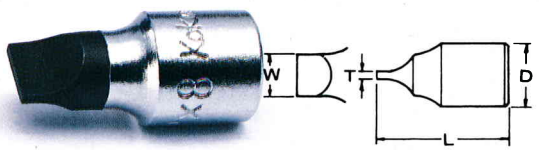
2000





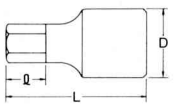
2000	D (mm)	L (mm)	(g)
1	12	28	10
2	12	28	10.5
3	12	28	12.2
4	12	28	13.5

2005



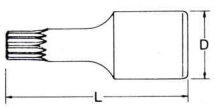
2005	T X W (mm)	D (mm)	L (mm)	(g)
4	0.6×4	12	25	8.5
5	0.8×5.5	12	25	9.5
6	1.0×6	12	25	10
8	1.2×8	12	25	11
9	1.6×9	12	25	12

2010M



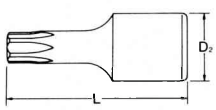
2010M (mm)	2010A (inch)	D (mm)	ℓ (mm)	L (mm)	(g)
3	1/8	12	5	25	9
4	5/32	12	5	25	9
5	3/16	12	6	25	10
	7/32	12	6	25	10.5
6	1/4	12	7	25	11.5
	9/32	12	7	25	12
8	5/16	12	7	25	14
10		12	8	25	17

2020



2020	D (mm)	L (mm)
M5	12	32
M6	12	32
M8	12	32

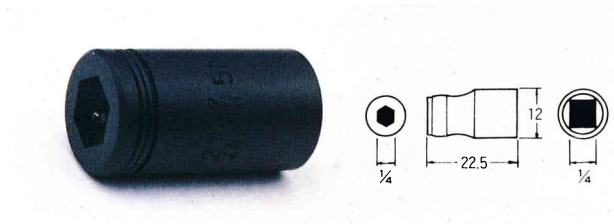
2025



2025	D (mm)	L (mm)
T10	12	32
T15	12	32
T20	12	32
T25	12	32
T27	12	32
T30	12	32

ACCESSORIES

2137 Bit Holder



凹1/4” × 凹1/4” ⚖ =13g

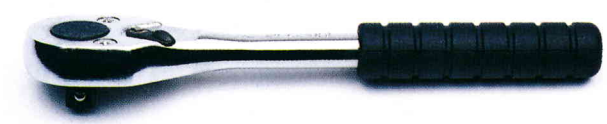
2749P Reversible Ratchet

L=125mm ⚖ =96g

2749N Reversible Ratchet

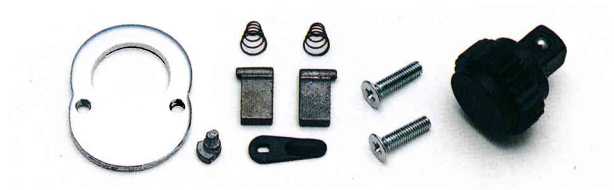
L=125mm ⚖ =100g

2749G Reversible Ratchet



L=125mm ⚖ =100g

2749RK Reversible Ratchet Renewal Kit



⚖ =30g

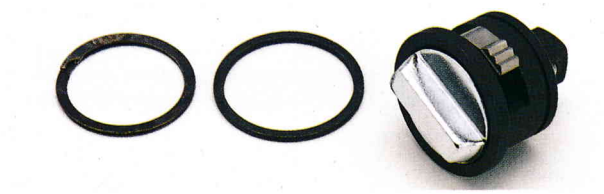
2752N Reversible Ratchet

L=125mm ⚖ =95g

2752G Reversible Ratchet

L=125mm ⚖ =95g

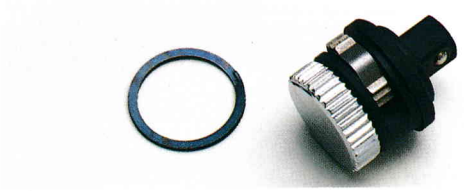
2752RK Reversible Ratchet Renewal Kit



2755 Ratchet Adaptor

L=40mm ⚖ =80g

2755RK Ratchet Adaptor Renewal Kit



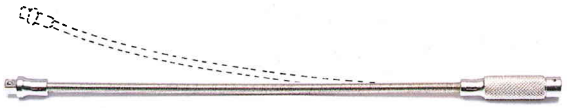
⚖ =40g

2760-50/-100/-150/-600 Extension Bar

- 2760-50 L=50mm ⚖ =23g
- 2760-100 L=100mm ⚖ =44g
- 2760-150 L=150mm ⚖ =63g
- 2760-600 L=600mm ⚖ =240g

ACCESSORIES

2762 Flexible Extension Bar



L=300mm ⚖=90g

2763-28/-50/-100 Offset Extension Bar

- 2763-28 L=28mm ⚖=14g
- 2763-50 L=50mm ⚖=23g
- 2763-100 L=100mm ⚖=43g

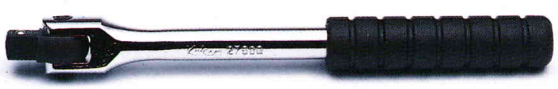
2768P Hinge Handle

L=130mm ⚖=80g

2768N Hinge Handle

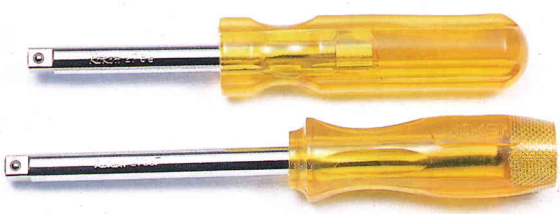
L=130mm ⚖=84g

2768G Hinge Handle



L=130mm ⚖=80g

2769N/2769F Socket Driver

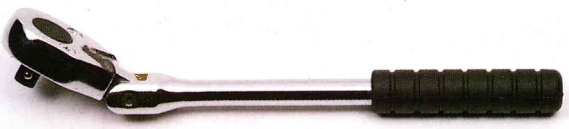


- 2769N L=140mm ⚖=68g
- 2769F L=150mm ⚖=90g

2770 Universal Joint

L=33mm ⚖=20g

2774G Flexible Ratchet Reversible

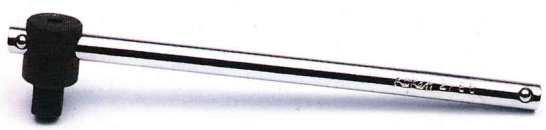


L=165mm ⚖=102g

2780 Speed Handle

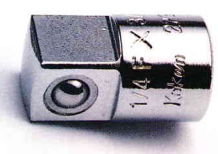
L=350mm ⚖=250g

2785 T-Handle



L=115mm ⚖=36g

2233A Adaptor



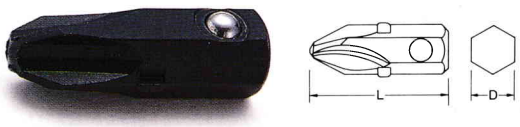
凹1/4"×凸3/8" ⚖=16g

RATCHET SPANNERS AND BITS

102NA Ratchet Spanner

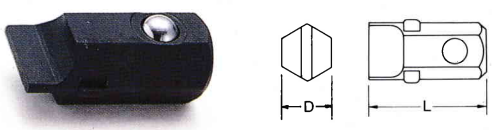
- 102NA-1/4×5/16 ⚖=61g
- 102NA-3/8×7/16 ⚖=84g

101P Bits



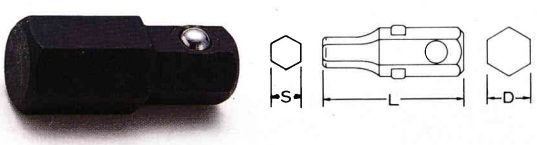
101P	D (mm)	L (mm)	⚖ (g)
1	6.35	20.5	3
2	6.35	20.5	4
3	6.35	20.5	4.5

101S Bits



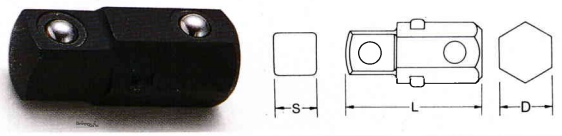
101S	D (mm)	L (mm)	⚖ (g)
1X7	6.35	15	3
1.2X7	6.35	15	3

101H Bits



101H	S	D (mm)	L (mm)	⚖ (g)
3	3	6.35	20.5	4.5
4	4	6.35	20.5	4.5
5	5	6.35	20.5	5
6	6	6.35	20.5	5
8	8	6.35	20.5	7

101A Adaptor

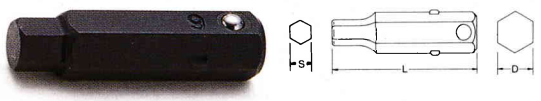


101A	S	D (mm)	L (mm)	⚖ (g)
	6.35	8	20	8

101T Bits

101T	D (mm)	L (mm)
T-10	6.35	28
T-15	6.35	28
T-20	6.35	28
T-25	6.35	28
T-27	6.35	28
T-30	6.35	28

128H Bits



128H	S	D (mm)	L (mm)	⚖ (g)
3	3	8	32	11
4	4	8	32	11
5	5	8	32	11.5
6	6	8	32	12
8	8	8	32	13

128T Bits

128T	D (mm)	L (mm)
T-10	8	35
T-15	8	35
T-20	8	35
T-25	8	35
T-27	8	35
T-30	8	35

RATCHET SPANNERS SETS

R810A

R810A : 5 Pieces Set	⚖ = 208 g
Bits	Accessories
101P-1, 2, 3 101S-1.0 × 7	102NA-1/4 × 5/16
METAL CASE : 130 × 65 × 19 mm	

R810B

R810B : 10 Pieces Set	⚖ = 268 g
Bits	Accessories
101P-1, 2, 3 101S-1.0 × 7 128H-3, 4, 5, 6, 8	102NA-1/4 × 5/16
METAL CASE : 130 × 65 × 19 mm	

R810C

R810C : 12 Pieces Set	⚖ = 277 g
Bits & Sockets	Accessories
101P-1, 2, 3 101S-1.0 × 7 2400M-5, 6, 7, 8, 9, 10	102NA-1/4 × 5/16 101A
METAL CASE : 130 × 65 × 19 mm	

R810D

R810D : 17 Pieces Set	⚖ = 277 g
Bits & Sockets	Accessories
101P-1, 2, 3 101S-1.0 × 7 128H-3, 4, 5, 6, 8 2400M-5, 6, 7, 8, 9, 10	102NA-1/4 × 5/16 101A
METAL CASE : 130 × 65 × 19 mm	

R810E

R810E : 9 Pieces Set	⚖ = 445 g
Sockets	Accessories
2300M-6, 7, 8, 9, 10, 11, 12	102NA-1/4 × 5/16 101A
METAL CASE : 130 × 65 × 19 mm	

SOCKET SETS

2201AM

2201AM : 25 Pieces Set	= 870 g
Sockets	Accessories
2400M-6 point sockets : 11 Pcs. 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13 2400A-6 point sockets : 9 Pcs. 3/16, 7/32, 1/14 9/32, 5/16, 11/32, 3/8, 7/16, 1/2	5 Pcs. 2749N 2760-100 2769N 2770 2785
METAL CASE : 240 × 100 × 32 mm	

2250M/2250A

2250M : 16 Pieces Set	= 700 g
Sockets	Accessories
2400M-6 point sockets 8 Pcs. 5, 6, 7, 8, 9, 10, 11, 12 2415M-8 point sockets 2 Pcs. 8, 10	6 Pcs. 2749N 2760-50 2760-150 2770 2768N 2785
METAL CASE : 160 × 100 × 28 mm	

2250A : 16 Pieces Set	= 700 g
Sockets	Accessories
2400A-6 point sockets 7 Pcs. 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16 2415A-8 point sockets 3 Pcs. 1/4, 5/16, 3/8	6 Pcs. 2749N 2760-50 2760-150 2770 2768N 2785
METAL CASE : 160 × 100 × 28 mm	

2254M

2254M : 12 Pieces Set	= 450 g
Sockets	Accessories
101H-3, 4, 5 101P-1, 2, 3 101S-1 × 7, 1.2 × 7	101A 2769F 2137 102NA-1/4 × 5/16
METAL CASE : 165 × 110 × 25 mm	

2257M

2257M : 31 Pieces Set	= 930 g
Sockets	Accessories
2400M-6 point sockets 11 Pcs. 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12 2000 -Philips 4 Pcs. 1, 2, 3, 4 2005 -Flat 5 Pcs. 4, 5, 6, 8, 9 2010M-6 point sockets 6 Pcs. 3, 4, 5, 6, 8, 10	5 Pcs. 2749N 2760-100 2769N 2770 2785
METAL CASE : 240 × 100 × 32 mm	

12-point opening sockets are also available for sets.

SOCKET SETS

2262M

2262M : 13 Pieces Set	= 470 g
Sockets	Accessories
2400M-6 point sockets 11 Pcs. 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12	2 Pcs. 2760-50 2768N
METAL CASE : 160 × 100 × 28 mm	

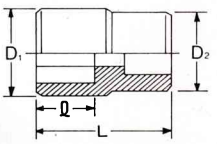
2272M / 2272A

2272M : 15 Pieces Set	= 650 g
Sockets	Accessories
2400M-6 point sockets 8 Pcs. 5, 6, 7, 8, 9, 10, 11, 12 2415M-8 point sockets 2 Pcs. 8, 10	5 Pcs. 2749N 2760-100 2769N 2770 2785
METAL CASE : 160 × 100 × 28 mm	

2272A : 15 Pieces Set	= 650 g
Sockets	Accessories
2400A-6 point sockets 7 Pcs. 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16 2415A-8 point sockets 3 Pcs. 1/4, 5/16, 3/8	5 Pcs. 2749N 2760-100 2769N 2770 2785
METAL CASE : 160 × 100 × 28 mm	

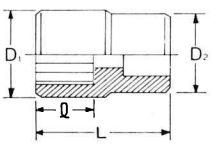
SOCKETS

3400M/3400A 6-point Sockets



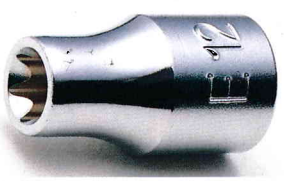
3400M (mm)	3400A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
6	1/4	9.9	17.3	4	26	20
7		10.6	17.3	4	26	20
8	5/16	11.8	17.3	5	26	22
	11/32	12.3	17.3	5	26	23
9		13.2	17.3	5	26	23
	3/8	13.7	17.3	5	26	23
10		14.5	17.2	6	26	24
11	7/16	15.7	17.2	7	26	25
12		16.8	17.2	8	26	25
13	1/2	18	17	8	26	24
14	9/16	20	18	10	27	31
15	19/32	21	20	10	27	39
16	5/8	22	20	10	27	41.5
17		23.6	22	10	28	51
	11/16	24	22	10	28	51
18		24	22	12	29	50.5
19	3/4	26	24	12	29	63.5
20	25/32	27.3	26	12	30	75
21	13/16	28	26	12	31	77
22	7/8	30	27	14	31	82
23		31.5	29	14	32	95
24		32	30	14	33	102

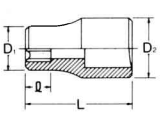
3405M/3405A 12-point Sockets



3405M (mm)	3405A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
6	1/4	9.9	17.3	4	26	21.5
7		10.6	17.3	4	26	21.5
8	5/16	11.8	17.3	5	26	21.5
	11/32	12.3	17.3	5	26	20
9		13.2	17.3	5	26	22.5
	3/8	13.7	17.3	5	26	23
10		14.5	17.2	6	26	23.5
11	7/16	15.7	17.2	7	26	24.5
12		16.8	17.2	8	26	25
13	1/2	18	17	8	26	23.5
14	9/16	20	18	10	27	30.5
15	19/32	21	20	10	27	37.5
16	5/8	22	20	10	27	40
17		23.6	22	10	28	49.5
	11/16	24	22	10	28	49.5
18		24	22	12	29	49.5
19	3/4	26	24	12	29	62
20	25/32	27.3	26	12	30	75
21	13/16	28	26	12	31	77
22	7/8	30	27	14	31	85
23		31.5	29	14	32	95
24		32	30	14	33	100

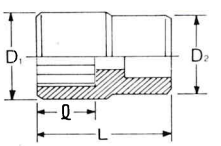
3425 Hex. Lobular Sockets





3425	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
E 4	5.6	17.3	4.2	26
E 5	6.9	17.3	4.2	26
E 6	7.9	17.3	5	26
E 7	8.9	17.3	5.8	26
E 8	9.9	17.3	6.6	26
E10	11.8	17.3	7.4	26
E12	14.5	17.2	9	26
E14	15.7	17.2	9.8	26
E16	18	17	10.6	26

3405W Whitworth 12-point Sockets



3405W	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
1/8	12.3	17.3	5	26	22
3/16	15.7	17.2	7	26	25
1/4	18	17	8	26	24
5/16	21	20	10	27	38.5
3/8	24	22	12	29	50.5
7/16	28	26	12	31	80.5
1/2	31.5	29	14	32	103
9/16	34	31	14	34	128

3/8”

SOCKETS

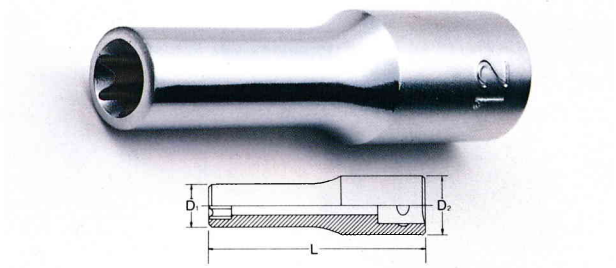
3300M / 3300A 6-point Deep Sockets

3300M (mm)	3300A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
6	1/4	9.9	17	5.2	55	44.5
7		10.6	17	6	55	44
8	5/16	12	17	7.5	55	44.5
9		13	17	7.5	55	47
	3/8	14	17	8	55	49
10		14.5	17	9	55	51.5
11	7/16	16	17	10.5	55	55
12		17	17.5	12	55	58
13	1/2	18	17	12	55	56.5
14	9/16	20	18	15	55	67.5
15		21	20	15	55	78
16	5/8	22	20	15	55	78.5
17	11/16	23.5	22	15	55	95.5
18		24.5	23	18	55	95.5
19	3/4	25	24	18	55	101.5
21	13/16	27	26	18	65	139.5
22	7/8	29	28	21	65	166
23		30	29	21	65	184.5
24		31	30	24	65	192.5

3305M / 3305A 12-point Deep Sockets

3305M (mm)	3305A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
6	1/4	9.9	17	5.2	55	44
7		10.6	17	6	55	44
8	5/16	12	17	7.5	55	44
9		13	17	7.5	55	44.5
	3/8	14	17	8	55	46
10		14.5	17	9	55	48.3
11	7/16	16	17	10.5	55	55
12		17	17.5	12	55	56.5
13	1/2	18	17	12	55	55.5
14	9/16	20	18	15	55	66.5
15		21	20	15	55	78.5
16	5/8	22	20	15	55	77.5
17	11/16	23.5	22	15	55	92.5
18		24.5	23	18	55	97
19	3/4	25	24	18	55	101.5
21	13/16	27	26	18	65	134
22	7/8	29	28	21	65	157.5
23		30	29	21	65	176
24		31	30	24	65	189.5

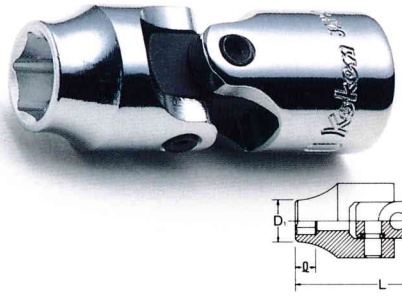
3325 Hex. Lobular Deep Sockets



3325	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
E- 4	5.6	17.3	4.2	55
E- 5	6.9	17.3	4.2	55
E- 6	7.9	17.3	5.0	55
E- 7	8.9	17.3	5.8	55
E- 8	9.9	17.3	6.6	55
E-10	11.8	17.3	7.4	55
E-12	14.5	17.2	9.0	55
E-14	15.7	17.2	9.8	55
E-16	18	17	10.6	55

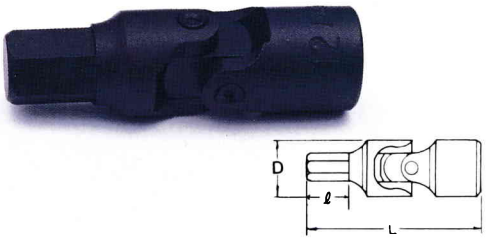
SOCKETS

3440M/3440A Universal Sockets



3440M (mm)	3440A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
8	5/16	11.8	19	6	48	50
9		13.2	19	6	48	50
	3/8	13.7	19	6	48	50
10		14.5	19	7	49	64
11	7/16	15.7	19	8	50	66
12		16.8	19	9	51	67
13	1/2	18	19	9	51	68
14	9/16	20	19	11	55	69
15		21	19	11	55	70
16	5/8	22	19	11	55	77
17		23.6	19	11	55	72
18	11/16	24	19	13	57	80
19	3/4	26	19	13	57	84

3430M Universal Hex Sockets



3430M (mm)	D (mm)	ℓ (mm)	L (mm)	(g)
5	19	15	62	66
6	19	15	62	70
7	19	15	62	72
8	19	15	62	74
10	19	15	62	78
12	19	15	62	85

3222M Universal Hex Socket Set

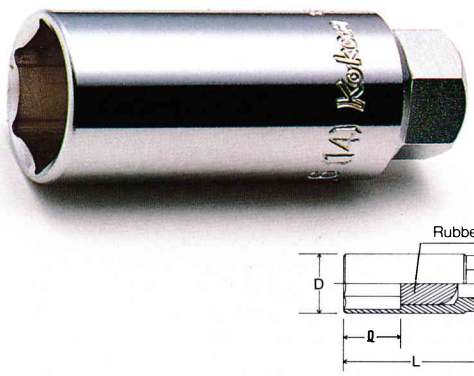
3222M : 5 Pieces Set	= 610 g
Sockets	**3430M**-5 Pcs. 5, 6, 7, 8, 10
METAL CASE : 165 × 110 × 25 mm	

3223M Universal Socket Set

3223M : 8 Pieces Set	= 925 g
Sockets	3440M-8 Pcs. 10, 11, 12, 13, 14, 15, 17, 19
METAL CASE : 165 × 110 × 25 mm	

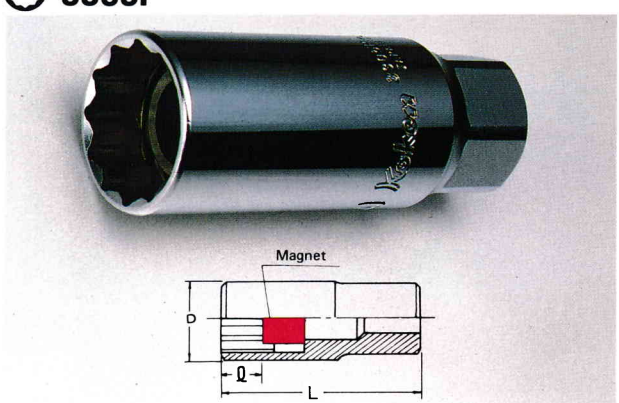
SPARK PLUG SOCKETS

3300S Spark Plug Sockets (with Rubber)



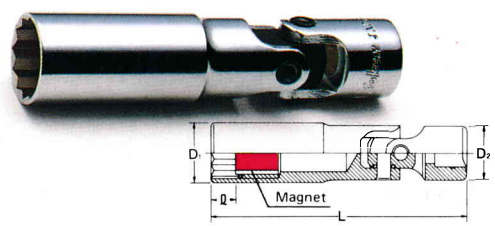
3300S (mm)	D (mm)	ℓ (mm)	L (mm)	(g)
16	22	19	70	101
18	24	21	70	105
20.6	27.3	27	70	130

3305P Spark Plug Sockets (with Magnet)



3305P (mm)	D (mm)	ℓ (mm)	L (mm)	(g)
16	21	10	70	91
18	24	10	70	140
20.6	26.9	10	70	132

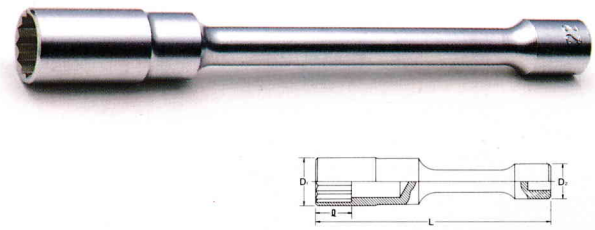
3345P Universal Spark Plug Socket (with Magnet)



3345P (mm)	D₁ (mm)	D₂ (mm)	ℓ (mm)	L (mm)	(g)
16	21	19	9	91	121

EXTENSION SOCKETS

3117M-125/-250

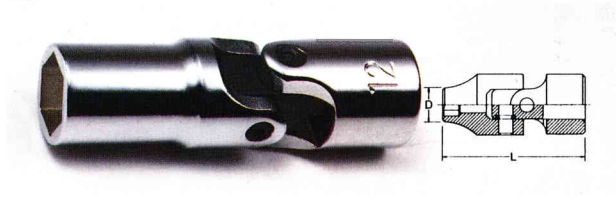


3117M-125 (mm)	D₁ (mm)	D₂ (mm)	ℓ (mm)	L (mm)
10	14.5	18	10	125
11	16	18	11	125
12	17	18	12	125
13	18	18	13	125
14	19.5	18	14	125
17	23.5	18	17	125
19	25	18	19	125
21	27	18	21	125
22	29	18	22	125

3117M-250 (mm)	D₁ (mm)	D₂ (mm)	ℓ (mm)	L (mm)
10	14.5	18	10	250
11	16	18	11	250
12	17	18	12	250
13	18	18	13	250
14	19.5	18	14	250
17	23.5	18	17	250
19	25	18	19	250
21	27	18	21	250
22	29	18	22	250

SOCKETS

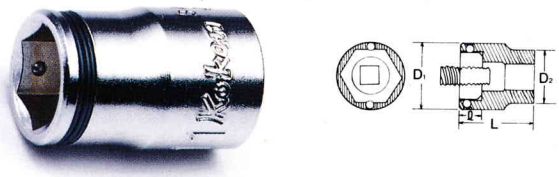
3340G Glow Plug Socket



3340G (mm)	D (mm)	L (mm)	(g)
12	17	65	80

3226M Nut Grip Socket Set

3450M Nut Grip Sockets



3450M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
8	12.3	17.2	5	26	21
10	14.5	17.2	6	26	24
11	15.7	17.2	6.5	26	26
12	16.8	17.2	7	26	26
13	18	17	8	26	28
14	20	18	8.5	27	34
15	21	20	9	27	42
17	23.6	22	9.5	28	52
19	26	24	11.5	29	66
21	28	26	12	29	85
22	30	27	12.5	29	90
24	32	30	14.5	31	102

HEX SOCKETS

3012M-52/3012A-52

3012M-52 (mm)	3012A-52 (inch)	D (mm)	ℓ (mm)	L (mm)	(g)
3	1/8	18	10	52	35
4	5/32	18	15.5	52	38
5	3/16	18	15.5	52	40
6	7/32	18	15.5	52	42
	1/4	18	15.5	52	44
7	9/32	18	15.5	52	46
8	5/16	19	15.5	52	50
9	11/32	19	15.5	52	55
	3/8	20	15.5	52	65
10		20	15.5	52	66
11	7/16	20	15.5	52	72
12		20	15.5	52	77
13	1/2	20	15.5	52	82
14	9/16	20	15.5	52	89

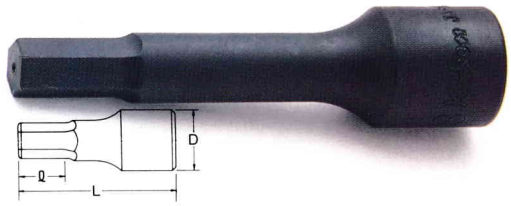
3012M-62/3012A-62

3012M-62 (mm)	3012A-62 (inch)	D (mm)	ℓ (mm)	L (mm)	(g)
3	1/8	18	10	62	38
4	5/32	18	15.5	62	40
5	3/16	18	15.5	62	43
6	7/32	18	15.5	62	46
	1/4	18	15.5	62	48
8	5/16	19	15.5	62	58
	3/8	20	15.5	62	73
10		20	15.5	62	77
12		20	15.5	62	90
14	9/16	20	15.5	62	109

3/8"

HEX SOCKETS

3012M-75



3012M-75 (mm)	D (mm)	ℓ (mm)	L (mm)	(g)
4	18	15.5	75	43
5	18	15.5	75	48
6	18	15.5	75	53
8	19	15.5	75	69
9	19	15.5	75	72
10	20	15.5	75	92
12	20	15.5	75	110

BIT SOCKETS

3001

3001	D (mm)	L (mm)	(g)
2	18	60	38
3	18	60	38
4	18	60	38

3006

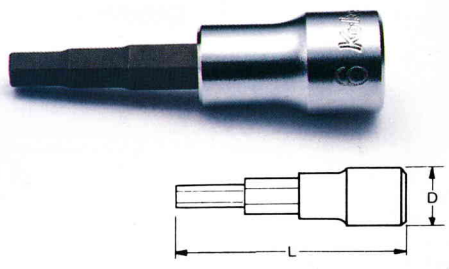
3006 (mm)	T X W (mm)	D (mm)	L (mm)	(g)
6	1X 6	18	60	35
8	1.2X 8	18	60	42
11	1.6X11	18	60	50

BIT SOCKETS

3000

3000	D (mm)	L (mm)	(g)
2	18	60	49
3	18	60	49
4	18	60	49.5

3010M-62



3005

3005 (mm)	T X W (mm)	D (mm)	L (mm)	(g)
6	1X 6	18	60	47
8	1.2X 8	18	60	49
11	1.6X11	20	60	85

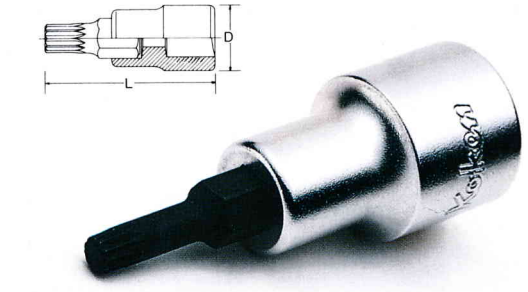
3010M-62 (mm)	D (mm)	L (mm)	(g)
4	18	62	45
5	18	62	48
6	18	62	49
8	18	62	52
10	20	62	76
12	20	62	94

BIT SOCKETS

3011M-62 Hex Sockets (Ball point)

3011M-62 (mm)	D (mm)	L (mm)	(g)
3	18	62	45
4	18	62	46
5	18	62	47.5
6	18	62	48.5
7	18	62	50
8	18	62	51

3020 XZN Bit Sockets



3020	D (mm)	L (mm)
M 5	18	50
M 6	18	50
M 8	18	50
M10	20	50
M12	20	50

3025

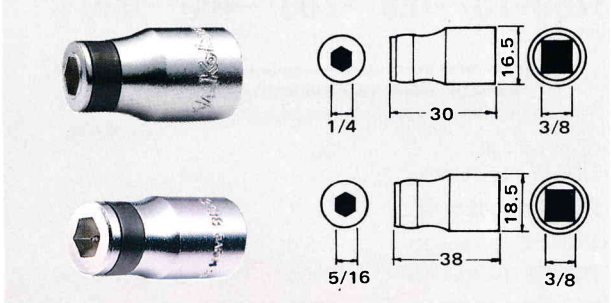
3025	D (mm)	L (mm)
T10	18	50
T15	18	50
T20	18	50
T25	18	50
T27	18	50
T30	18	50
T40	18	50
T45	18	50
T50	20	50
T55	20	50

ACCESSORIES

3112N/3112G Attack Driver

•3112N =660g •3112G =810g

3137/3138 Bit Holder



•3137 =30g •3138 =55g

3715 T-Handle

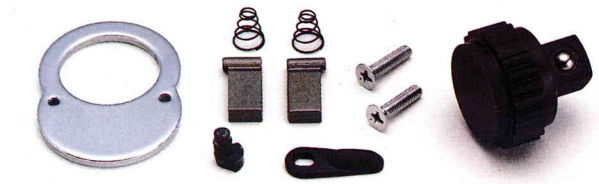
L=268mm =378g

3749 Reversible Ratchet

L=175mm =270g

ACCESSORIES

3749RK Reversible Ratchet Renewal Kit



⚖=70g

3749S Reversible Ratchet Short

L=110mm ⚖=183g

3752N Reversible Ratchet

L=200mm ⚖=310g

3752G Reversible Ratchet

L=200mm ⚖=310g

3752RK Reversible Ratchet Renewal Kit

⚖=84g

3753P Reversible Ratchet

L=175mm ⚖=265g

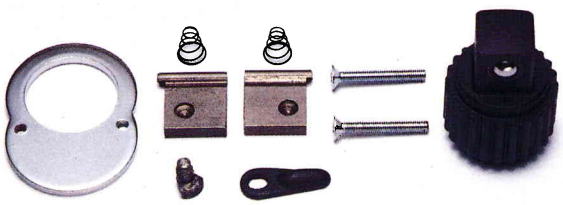
3753N Reversible Ratchet

L=175mm ⚖=246g

3753G Reversible Ratchet

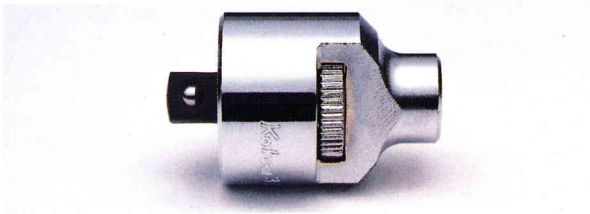
L=175mm ⚖=250g

3753RK Reversible Ratchet Renewal Kit



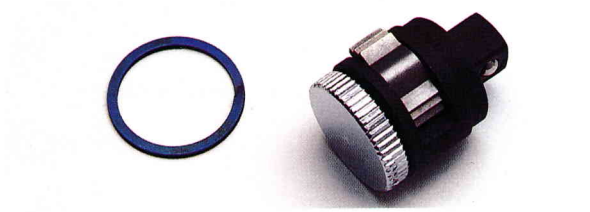
⚖=76g

3755 Ratchet Adaptor



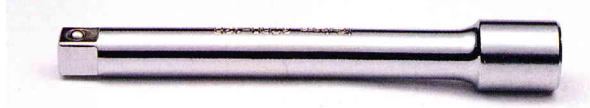
L=55mm ⚖=187g

3755RK Ratchet Adaptor Renewal Kit



⚖=98g

3760-75/-125/-250/-400/-600 Extension Bar

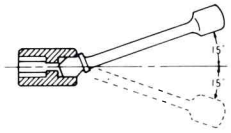


- 3760-75 L=75mm ⚖=78g
- 3760-125 L=125mm ⚖=125g
- 3760-250 L=250mm ⚖=230g
- 3760-400 L=400mm ⚖=365g
- 3760-600 L=600mm ⚖=538g

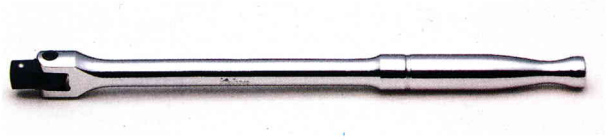
ACCESSORIES

3763-32/-75/-125/-250 Offset Extension Bar

- 3763-32 L=32mm =30.5g
- 3763-75 L=75mm =57g
- 3763-125 L=125mm =83g
- 3763-250 L=250mm =96g



3768P-250 Hinge Handle



L=250mm =275g

3768N-250 Hinge Handle

L=250mm =290g

3768G-250 Hinge Handle

L=250mm =219g

3768RK

=21g

3769 Socket Driver

L=130mm =109g

3770 Universal Joint

=66g

3774P Flexible Ratchet Reversible

L=265mm =373g

3774N Flexible Ratchet Reversible

L=265mm =378g

3774G Flexible Ratchet Reversible

L=280mm =335g

3775N Flexible Ratchet Reversible

L=250mm =374g

3775G Flexible Ratchet Reversible

L=290mm =350g

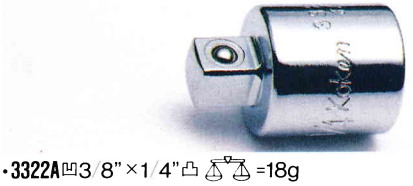
3780 Speed Handle

L=400mm =432g

3785 T-Handle

L=200mm =157g

3322A/3344A Adaptor



- 3322A□3/8”×1/4”△ =18g
- 3344A□3/8”×1/2”△ =35g

3/8”

SOCKET SETS

3200M/3200A

3200M : 18 Pieces Set — ⚖ = 2,250 g

Sockets	Accessories
3400M-6 point sockets 6 Pcs. 6, 8, 9, 10, 11, 12 3405M-12 point sockets 6 Pcs. 13, 14, 17, 18, 19, 21	6 Pcs. 3753N 3760-125 3760-250 3768N 3769 3785

METAL CASE : 400 × 90 × 50 mm

3200A : 18 Pieces Set — ⚖ = 2,250 g

Sockets	Accessories
3400A-6 point sockets 4 Pcs. 1/4, 5/16, 3/8, 7/16 3405A-12 point sockets 8 Pcs. 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 13/16, 7/8	6 Pcs. 3753N 3760-125 3760-250 3768N 3769 3785

METAL CASE : 400 × 90 × 50 mm

3206AM

3206AM : 27 Pieces Set — ⚖ = 3,500 g

Sockets	Accessories
3405M-12 point sockets 12Pcs. 7, 8, 10, 11, 12, 13, 14, 15, 16, 18, 19, 22 3405A-12 point sockets 9Pcs. 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8 3305P-1 Pc. 20.6	5 Pcs. 3753N 3760-125 3760-250 3768N 3770

METAL CASE : 445 × 190 × 50 mm

3206M/3206A

3206M : 21 Pieces Set — ⚖ = 2,100 g

Sockets	Accessories
3400M-6 point sockets 7 Pcs. 6, 7, 8, 9, 10, 11, 12 3405M-12 point sockets 9 Pcs. 13, 14, 15, 16, 17, 18, 19, 21, 22	5 Pcs. 3753N 3760-125 3760-250 3768N 3785

METAL CASE : 400 × 95 × 50 mm

3206A : 17 Pieces Set — ⚖ = 2,000 g

Sockets	Accessories
3400A-6 point sockets 5 Pcs. 1/4, 5/16, 11/32, 3/8, 7/16 3405A-12 point sockets 7 Pcs. 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8	5 Pcs. 3753N 3760-125 3760-250 3768N 3785

METAL CASE : 400 × 95 × 50 mm

3215M/3215A

3215M : 7 Pieces Set — ⚖ = 430 g

Sockets	3305M-Deep sockets 7 Pcs. 8, 10, 11, 12, 13, 14, 17
Plastic Bag	

3215A : 7 Pieces Set — ⚖ = 430 g

Sockets	3305A 7 Pcs. 5/16, 3/8, 7/16, 1/2, 9/16, 5/8,11/16
Plastic Bag	

6-point opening sockets are also available for sets.

SOCKET SETS

3216

3216 : 4 Pieces Set — ⚖ = 730 g

Sockets	Accessories
3305P-12 point sockets 2 Pcs. 16, 20.6	2 Pcs. 3760-125 3775N

Card Bood Box :

3217M

3217M : 14 Pieces Set — ⚖ = 850 g

Sockets	3405M 14 Pcs. 9, 10, 11, 12, 13, 14, 15, 16, 17 18, 19, 20, 21, 22

METAL CASE : 163 × 52 × 33 mm

3240M / 3240A

3240M : 177 Pieces Set — ⚖ = 9,500 g

3400M		3405M			
6 mm : 12 Pcs.	12 mm : 12 Pcs.		18 mm : 8 Pcs.
7 mm : 12 Pcs.	13 mm : 11 Pcs.		19 mm : 8 Pcs.
8 mm : 12 Pcs.	14 mm : 11 Pcs.		20 mm : 7 Pcs.
9 mm : 12 Pcs.	15 mm : 10 Pcs.		21 mm : 7 Pcs.
10 mm : 12 Pcs.	16 mm : 9 Pcs.		22 mm : 7 Pcs.
11 mm : 12 Pcs.	17 mm : 9 Pcs.		23 mm : 6 Pcs.

METAL CASE : 510 × 150 × 230 mm

3240A : 126 Pieces Set — ⚖ = 9,200 g

3400A	3405A	
1/4″ : 12 Pcs.	1/2″ : 11 Pcs.	11/16″ : 9 Pcs.
5/16″ : 12 Pcs.	9/16″ : 10 Pcs.	3/4″ : 8 Pcs.
3/8″ : 12 Pcs.	19/32″ : 10 Pcs.	25/32″ : 7 Pcs.
7/16″ : 12 Pcs.	5/8″ : 9 Pcs.	11/16″ : 7 Pcs.
		7/8″ : 7 Pcs.

METAL CASE : 510 × 150 × 230 mm

3231M

3231M : 13 Pieces Set — ⚖ = 1,600 g

Sockets	Accessories
3000-2, 3, 4 3005-6, 8, 11 3010M-62 : 4, 5, 6, 8, 10, 12	3749S

METAL CASE : 400 × 95 × 50 mm

3234M

3234M : 5 Pieces Set — ⚖ = 530 g

Sockets	Accessories
3011M-62-4, 5, 6, 8	3749S

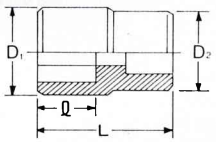
METAL CASE : 130 × 65 × 30 mm

3240M 3240A

1/2”

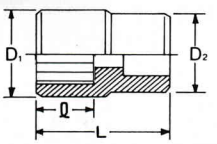
SOCKETS

4400M/4400A 6-point Sockets



4400M (mm)	4400A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
8	5/16	13.2	21	8	36	44
9		13.9	21	8.5	37	43.5
	3/8	14.5	21	9	37	44.5
10		15	21	9	37	45
11	7/16	16.3	21	9.5	37	46
12		17.6	21	10	37	47
13	1/2	18.8	22	10.5	37	53
14	9/16	20.4	22	11	37	56
15	19/32	21.7	21	11.5	37	52
16	5/8	22.9	22	12	37	61.5
17	21/32	24	23	12.5	37	68.5
	11/16	24	23	12.5	37	66.5
18		25	24	13	37	74
19	3/4	26.8	26	14	38	89
20	25/32	28	26	15	38	92
	13/16	28	26	15.5	38	93
21		29.5	27	15.5	38	102
22	7/8	30	28	16	40	113
23		31.5	29	16.5	40	127.5
24	15/16	32	30	17	42	140
25		34	32	18	42	163.5
26	1	35	32	19	42	164.5
27	1-1/16	37	34	19.5	43	195.5
28		38	34	20	43	197.5
29	1-1/8	38	34	20.5	43	190
30	1-3/16	40	36	22	46	222
31		42	38	22.5	46	257
32	1-1/4	42	38	23	46	250
33	1-5/16	43	40	24	47	275
34		45	42	24	47	315
35	1-3/8	46	42	24	47	317
36	1-7/16	47	44	24	47	336
38	1-1/2	49	47	24	47	380

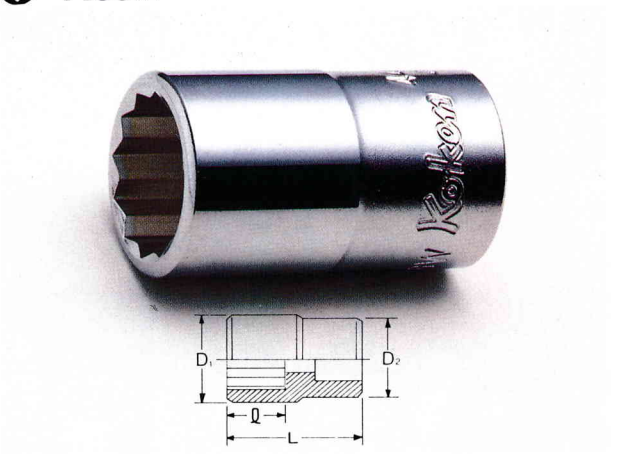
4405M/4405A 12-point Sockets



4405M (mm)	4405A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
8	5/16	13.2	21	8	36	43.5
9		13.9	21	8.5	37	44
	3/8	14.5	21	9	37	44
10		15	21	9	37	44
11	7/16	16.3	21	9.5	37	44.5
12		17.6	21	10	37	45
13	1/2	18.8	22	10.5	37	51.5
14	9/16	20.4	22	11	37	54.5
15	19/32	21.7	21	11.5	37	51.5
16	5/8	22.9	22	12	37	59.5
17	21/32	24	23	12.5	37	66
	11/16	24	23	12.5	37	66
18		25	24	13	37	73
19	3/4	26.8	26	14	38	86
20	25/32	28	26	15	38	87
	13/16	28	26	15.5	38	87
21		29.5	27	15.5	38	97.5
22	7/8	30	28	16	40	110
23		31.5	29	16.5	40	120
24	15/16	32	30	17	42	138
25		34	32	18	42	158
26	1	35	32	19	42	158
27	1-1/16	37	34	19.5	43	190
28		38	34	20	43	190
29	1-1/8	38	34	20.5	43	174
30	1-3/16	40	36	22	46	227
31		42	38	22.5	46	255
32	1-1/4	42	38	23	46	240
33	1-5/16	43	40	24	47	262
34		45	42	24	47	297
35	1-3/8	46	42	24	47	295
36	1-7/16	47	44	24	47	320
38	1-1/2	49	47	24	47	355

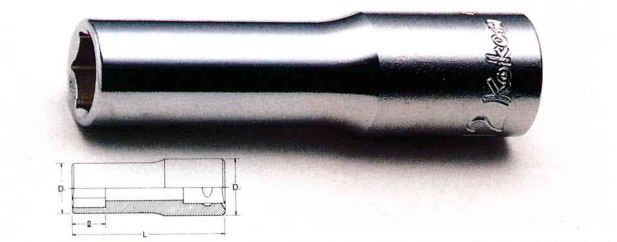
SOCKETS

4405W Whitworth 12-point Sockets



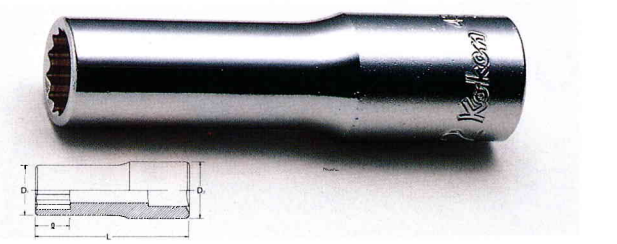
4405W	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)	(g)
1/8	13.5	21	8	37	42.5
3/16	16.3	21	9.5	37	45.5
1/4	19.4	22	10.5	37	54
5/16	21.7	21	11.5	37	53
3/8	25	24	13	37	73
7/16	28	26	15.5	38	86.5
1/2	32	30	16.5	40	133
9/16	35	32	19	42	159.5
5/8	38	34	20	43	191
11/16	40	36	22	46	220
3/4	43	40	24	47	270
13/16	46	42	24	47	295
7/8	49	47	24	47	370

4300M/4300A 6-point Deep Sockets



4300M (mm)	4300A (inch)	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)	(g)
8	5/16	13.2	21	9	77	99
9		14	21	10	77	99
	3/8	14.7	21	10	77	99
10		15.2	21	11	77	91
11	7/16	16.3	21	12	77	95
12		17.7	21	13	77	98.5
13	1/2	18.7	21	14	77	106.5
14	9/16	20.4	21	15	77	117.5
15	19/32	21.3	22	16	77	123
16	5/8	22.9	22	17	77	140.5
17	21/32	24	23	18	77	150
	11/16	24	23	18	77	145.5
18		25	24	19	77	164
19	3/4	26.9	26	20	77	177
20	25/32	28	26	21	77	178
21	13/16	28.5	27	23	77	187
22	7/8	30	27	27	77	202
23		31.5	30	27	77	256
24	15/16	32	30	27	77	252
25		34	32	27	77	301
26	1	35	32.5	27	77	311
27	1-1/16	36.5	34	28	77	345
28	1-1/8	38	34	28	77	363
29		39.2	36	28	77	391
30	1-3/16	40	36	34	77	363
31		42	38	34	77	420
32	1-1/4	42	38	34	77	410

4305M/4305A 12-point Deep sockets

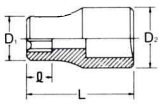


4305M (mm)	4305A (inch)	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)	(g)
8	5/16	13.2	21	9	77	95
9		14	21	10	77	98
	3/8	14.7	21	10	77	102.5
10		15.2	21	11	77	95
11	7/16	16.3	21	12	77	105
12		17.7	21	13	77	106.5
13	1/2	18.7	21	14	77	106
14	9/16	20.4	21	15	77	116
15	19/32	21.3	22	16	77	121
16	5/8	22.9	22	17	77	138
17	21/32	24	23	18	77	145
	11/16	24	23	18	77	149
18		25	24	19	77	164
19	3/4	26.9	26	20	77	174.5
20	25/32	28	26	21	77	177.5
21	13/16	28.5	27	23	77	181.5
22	7/8	30	27	27	77	197.5
23		31.5	30	27	77	200
24	15/16	32	30	27	77	245
25		34	32	27	77	285
26	1	35	32.5	27	77	300
27	1-1/16	36.5	34	28	77	340
28	1-1/8	38	34	28	77	345
29		39.2	36	28	77	370
30	1-3/16	40	36	34	77	350
31		42	38	34	77	415
32	1-1/4	42	38	34	77	395

1/2"

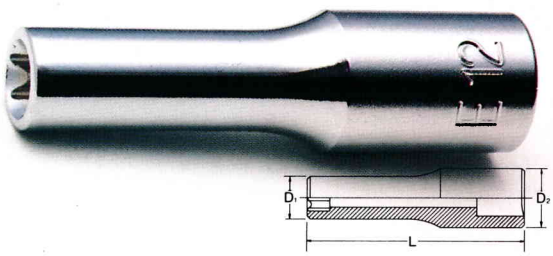
SOCKETS

4425 Hex. Lobular Sockets



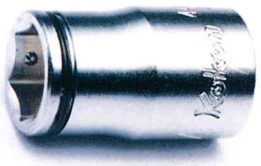
4425	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
E-10	13.2	21	7.4	36
E-12	15	21	9.0	37
E-14	16.3	21	9.8	37
E-16	18.8	22	10.6	37
E-18	20.4	22	12.1	37
E-20	22.9	22	13.7	37

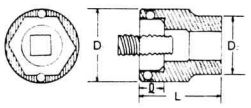
4325 Hex. Lobular Deep Sockets



4325	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
E-10	13.2	21	7.4	77
E-12	15	21	9.0	77
E-14	16.3	21	9.8	77
E-16	18.8	22	10.6	77
E-18	20.4	22	12.1	77
E-20	22.9	22	13.7	77

4450M Nut Grip Sockets



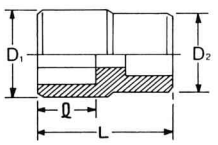


4450M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
10	15	21	6	36	44
11	16.3	21	6.5	36	45.6
12	17.6	21	7	36	45.6
13	18.8	22	8	36	52
14	20.4	22	8.5	36	53.5
15	21.7	21	9	36	52
17	24	23	9.5	36	67.5
19	26.8	26	11.5	36	84.5
21	29.5	27	12	37	109.5
22	30	28	12.5	37	104.5
24	32	30	14.5	39	130
27	37	34	16.5	40	139

4226M Nut Grip Socket Set

4226M : 10 Pieces Set	= 850 g
Sockets	4450M : 10 Pieces 10, 11, 12, 13, 14, 15, 17 19, 21, 22
METAL CASE : 130 × 65 × 44 mm	

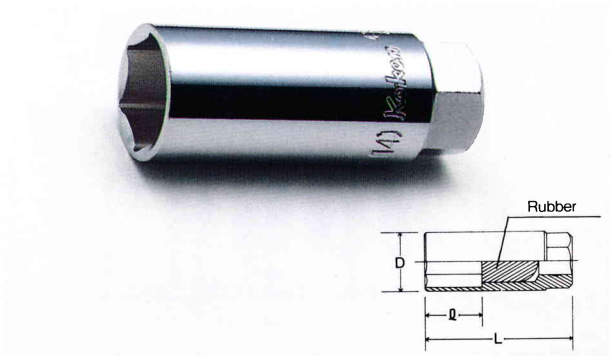
AL4400M Aluminium Wheel Nut Sockets



AL4400M (mm)	D (mm)	ℓ (mm)	L (mm)	(g)
17	29.5	21	43	52
19	32	24	45	58

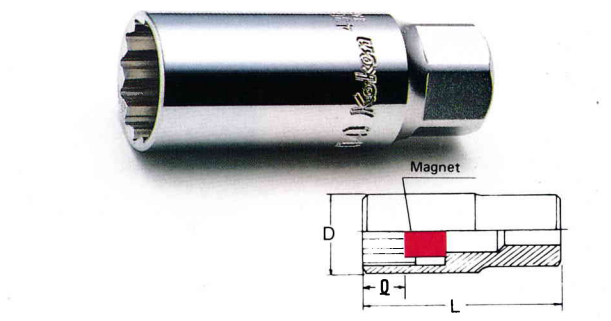
SPARK PLUG SOCKETS

4300S Spark Plug Sockets (with Rubber)



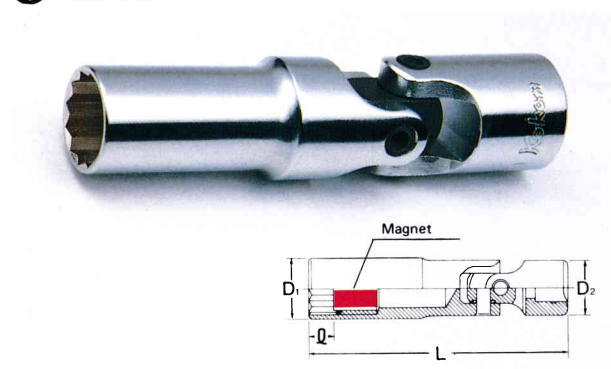
4300S (mm)	D (mm)	ℓ (mm)	L (mm)	(g)
16	22	19	70	118
18	24	21	70	126
20.6	27.3	27	70	135

4305P Spark Plug Socket (with Magnet)



4305P (mm)	D (mm)	ℓ (mm)	L (mm)	(g)
16	21	10	70	101
18	24	10	70	132
20.6	26.9	10	70	130

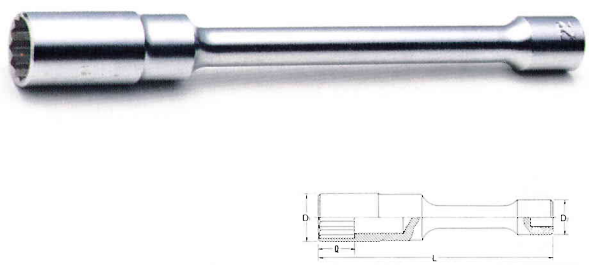
4345P Universal Spark Plug Socket (with Magnet)



4345P (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
16	21	25	10	106	220

EXTENSION SOCKETS

4117M-125/250



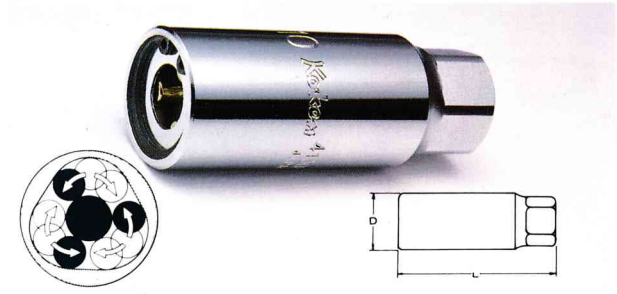
4117M-125 (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
13	18.7	24	13	125
14	20.2	24	14	125
17	24	24	17	125
19	26.9	24	19	125
22	30	24	22	125
24	32	24	24	125
27	36.5	24	27	125
30	40	24	30	125
32	42	24	32	125

4117M-250 (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
13	18.7	24	13	250
14	20.2	24	14	250
17	24	24	17	250
19	26.9	24	19	250
22	30	24	22	250
24	32	24	24	250
27	36.5	24	27	250
30	40	24	30	250
32	42	24	32	250

1/2”

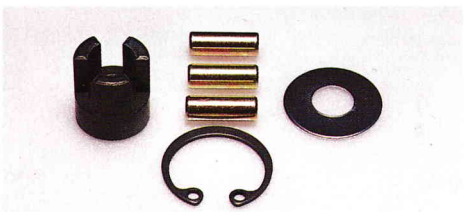
SCREW and STUD PULLERS

4100M/4100A



4100M (mm)	4100A (inch)	D (mm)	L (mm)	(g)
6	1/4	24	65	150
7		24	65	150
8	5/16	24	65	147
9		28	75	247
10	3/8	28	75	213
10.5		28	75	202
11	7/16	28	75	218
12		28	75	209
	1/2	28	75	191
14	9/16	34	75	326
16	5/8	34	75	300

4100MRK 4100ARK



4211M/4211A

4211M : 4 Pieces Set	= 1,450 g
Pullers	4100M : 6, 8, 10, 12
METAL CASE : 220 × 85 × 45 mm	

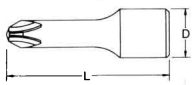
4211A : 4 Pieces Set	= 1,450 g
Pullers	4100A : 1/4, 5/16, 3/8, 1/2
METAL CASE : 220 × 85 × 45 mm	

4214M

4214M : 5 Pieces Set	= 1,450 g
Pullers	4100M : 6, 8, 10, 12, 14
METAL CASE : 220 × 85 × 45 mm	

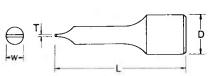
BIT SOCKETS

4001



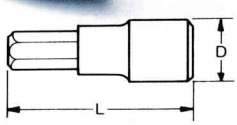
4001	D (mm)	L (mm)	(g)
2	21	60	53
3	21	60	55
4	21	60	57

4006



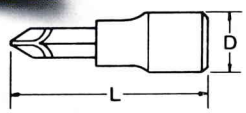
4006	T X W (mm)	D (mm)	L (mm)	(g)
8	1.2X8	21	60	53
9	1.6X9	21	60	61.5
12	2X12	21	60	66.5
14	2.5X14	21	60	72.4
16	2.5X16	21	60	81

4010M-75 Hex Socket



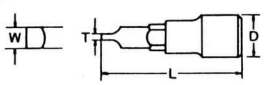
4010M-75 (mm)	D (mm)	L (mm)	(g)
4	22	75	68.5
5	22	75	69.5
6	22	75	71.5
8	22	75	74
10	22	75	92
12	23	75	130
14	24	75	150
17	24	75	180
19	26	75	230

4000



4000	D (mm)	L (mm)	(g)
2	22	60	64.5
3	22	60	65
4	22	60	67

4005

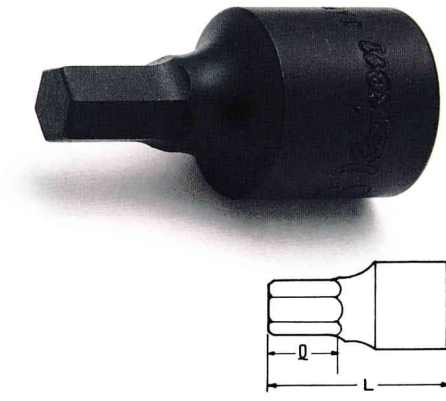


4005	T X W (mm)	D (mm)	L (mm)	(g)
8	1.2X8	22	60	65
9	1.6X9	22	60	65
12	2X12	23	60	111
14	2.5X14	24	70	133
16	2.5X16	24	70	140

1/2”

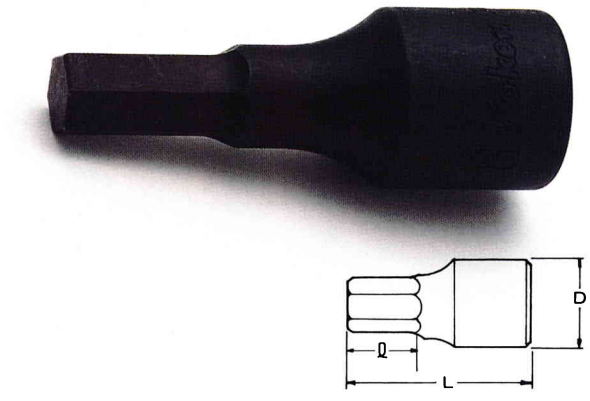
HEX SOCKETS

4012M-43/4012A-43



4012M-43 (mm)	4012A-43 (inch)	D (mm)	ℓ (mm)	L (mm)	(g)
5	3/16	21.1	11.5	43	46
6	7/32	21.1	11.5	43	42
8	5/16	21.1	11.5	43	49
10		21.5	11.5	43	79
12		24	11.5	43	81
14	9/16	24	11.5	43	87.5
17		24	11.5	43	101
19	3/4	24	11.5	43	110
23		28	11.5	43	198

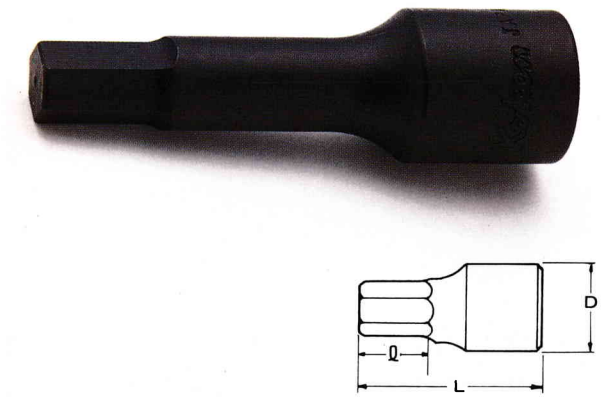
4012M-60/4012A-60



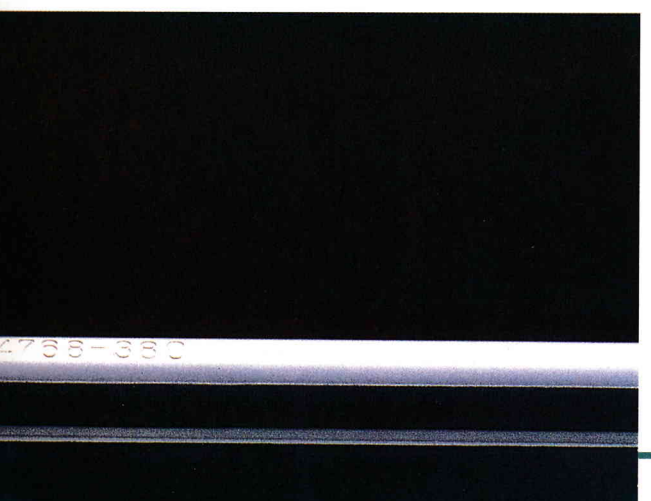
4012M-60 (mm)	4012A-60 (inch)	D (mm)	ℓ (mm)	L (mm)	(g)
4	5/32	21.1	15.5	60	49
5	3/16	21.1	15.5	60	55
6	7/32	21.1	15.5	60	56
	1/4	21.1	15.5	60	57
7	9/32	21.1	15.5	60	60
8	5/16	21.1	15.5	60	64
9	11/32	21.1	15.5	60	78
	3/8	21.5	15.5	60	74
10		21.5	15.5	60	78
11	7/16	24	15.5	60	100
12		24	15.5	60	107
13	1/2	24	15.5	60	110.5
14	9/16	24	15.5	60	121.5
15		24	15.5	60	124.5
16	5/8	24	15.5	60	133.5
17		24	15.5	60	140.5
18		24	15.5	60	152.5
19	3/4	24	15.5	60	158.5
21		25	15.5	60	184.5
22		26	15.5	60	203.5
23		28	15.5	60	235.5
24		28	15.5	60	243.5

HEX SOCKETS

4012M-75/4012A-75

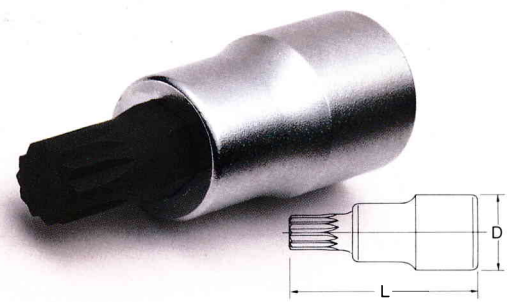


4012M-75 (mm)	4012A-75 (inch)	D (mm)	ℓ (mm)	L (mm)	(g)
5	3/16	21.1	15.5	75	58
6	7/32	21.1	15.5	75	62
	1/4	21.1	15.5	75	65
7	9/32	21.1	15.5	75	70
8	5/16	21.1	15.5	75	74
	3/8	21.5	15.5	75	86
10		21.5	15.5	75	94
11	7/16	24.	15.5	75	119
12		24.	15.5	75	122
13	1/2	24.	15.5	75	137
14	9/16	24.	15.5	75	148
16	5/8	24.	15.5	75	171
17		24.	15.5	75	184
19	3/4	24.	15.5	75	212



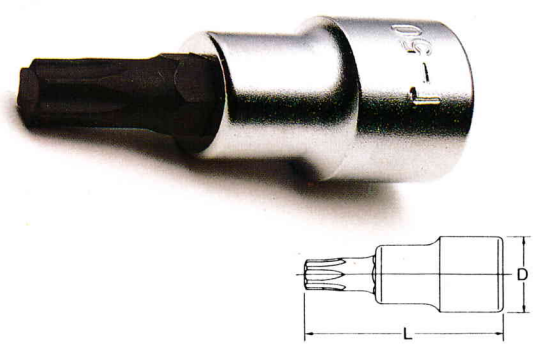
BIT SOCKETS

4020 XZN Bit Sockets



4020	D (mm)	L (mm)
M5	22	60
M6	22	60
M8	22	60
M10	23	60
M12	23	60

4025



4025	D (mm)	L (mm)
T20	22	60
T25	22	60
T27	22	60
T30	22	60
T40	22	60
T45	22	60
T50	22	60
T55	23	60
T60	24	60

1/2”

ATTACK DRIVERS

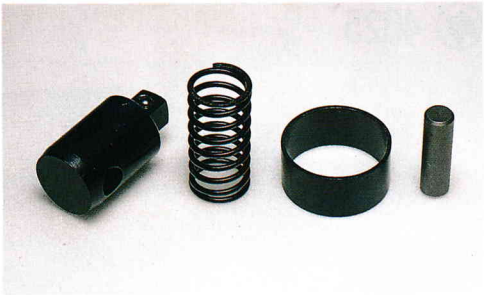
4112N Attack Driver

⚖ =660g

4112G Attack Driver

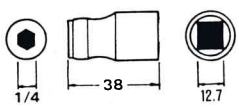
⚖ =810g

4112RK



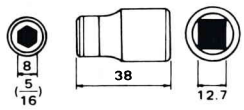
⚖ =140g

4137 Bit Holder



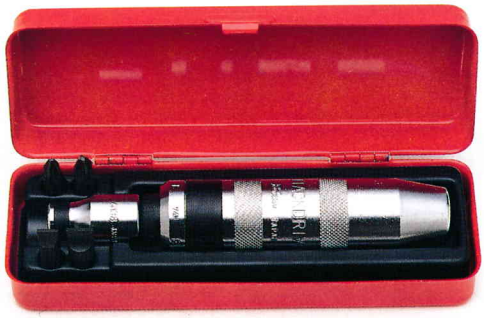
L=38mm ⚖ =53g

4138 Bit Holder



L=38mm ⚖ =62g

AN112A



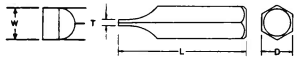
AN112A : 6 Pieces Set	⚖ = 1,000 g
Attack Driver	Bits
4112N, 4138	100P-32 ; 2, 3 100S-32 ; 9, 11
METAL CASE : 190 × 59 × 45 mm	

AG112A

AG112A : 6 Pieces Set	⚖ = 1,150 g
Attack Driver	Bits
4112G, 4138	100P-32 ; 2, 3 100S-32 ; 9, 11
METAL CASE : 190 × 59 × 45 mm	

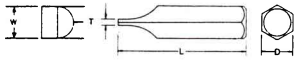
BITS

100P-32



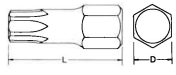
100P-32	D (mm)	L (mm)	(g)
1	8	32	11
2	8	32	11
3	8	32	10

100S-32



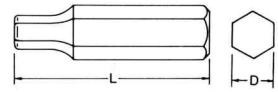
100S-32	T X W (mm)	D (mm)	L (mm)	(g)
6	1.0X 6	8	32	10
8	1.2X 8	8	32	12
9	1.6X 9	8	32	12
11	1.6X11	8	32	15
12	2.0X12	8	32	18
14	2.0X14	8	32	21

100T-35



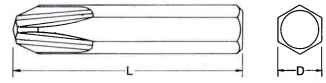
100T-35	D (mm)	L (mm)
T-10	8	35
T-15	8	35
T-20	8	35
T-25	8	35
T-27	8	35
T-30	8	35
T-40	8	35

100H-32



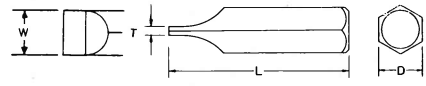
100H-32 (mm)	D (mm)	L (mm)	(g)
3	8	32	11.4
4	8	32	11.2
5	8	32	11.5
6	8	32	11.9
8	8	32	13.4
10	8	32	16.3
12	8	32	22.8
14	8	32	29

100P-80



100P-80	D (mm)	L (mm)	(g)
1	8	80	30.5
2	8	80	30.5
3	8	80	30.8
4	8	80	31.8

100S-80

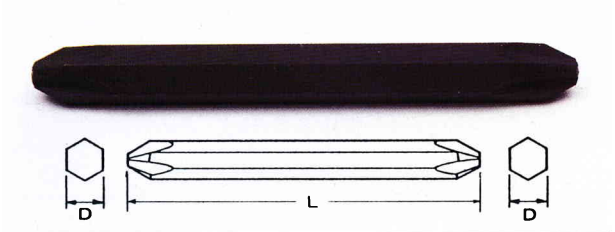


100S-80	T X W (mm)	D (mm)	L (mm)	(g)
6	1.0X 6	8	80	29
7	1.0X 7	8	80	30
8	1.2X 8	8	80	31
9	1.6X 9	8	80	32
11	1.6X11	8	80	33
12	2.0X12	8	80	34

1/2"

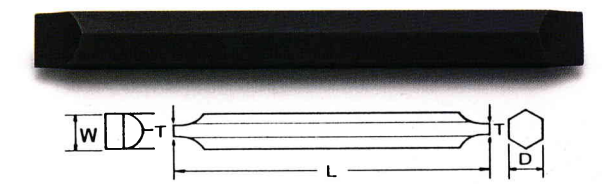
BITS

131P-80



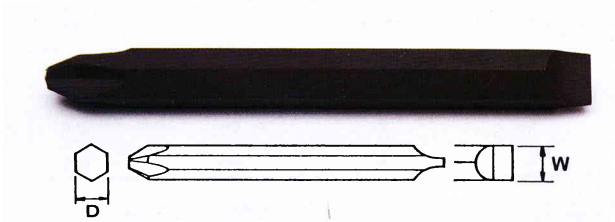
131P-80		D (mm)	L (mm)
1	No.1 X No.2	8	80
2	No.2 X No.3	8	80
3	No.3 X No.3	8	80

131S-80



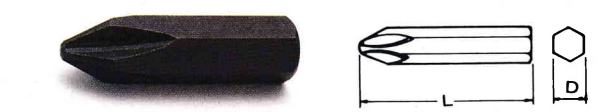
131S-80	T X W (mm)	D (mm)	L (mm)
6	1.0 X 6	8	80
7	1.0 X 7	8	80
8	1.2 X 8	8	80
9	1.6 X 9	8	80

100PS-80



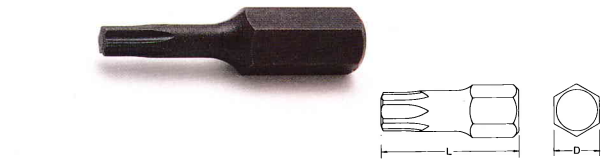
100PS-80		W (mm)	D (mm)	L (mm)
2	No.2 X 6	6	8	80
3	No.3 X 8	8	8	80

108P-25



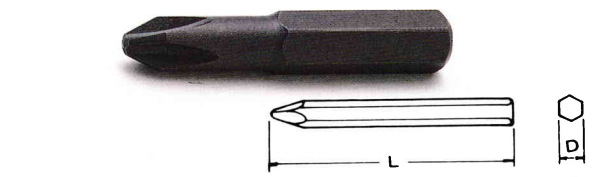
108P-25	D (mm)	L (mm)
1	6.35	25
2	6.35	25
3	6.35	25

108T-28



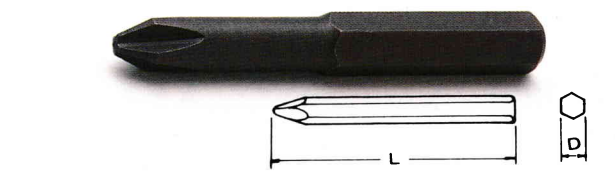
108T-28	D (mm)	L (mm)
T-10	6.35	28
T-15	6.35	28
T-20	6.35	28
T-25	6.35	28
T-27	6.35	28
T-30	6.35	28

108P-32



108P-32	D (mm)	L (mm)
1	6.35	32
2	6.35	32
3	6.35	32

108P-50



108P-50	D (mm)	L (mm)
1	6.35	50
2	6.35	50
3	6.35	50

108S-25

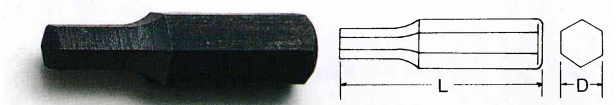
108S-25	T X W (mm)	D (mm)	L (mm)
3	0.5 X 3	6.35	25
4.5	0.6 X 4.5	6.35	25
5.5	0.8 X 5.5	6.35	25
6	1.0 X 6	6.35	25
8	1.2 X 8	6.35	25

BITS

⊖ 108S-39

108S-39	T X W (mm)	D (mm)	L (mm)
4	0.6 X 4	6.35	39
4.5	0.6 X 4.5	6.35	39
5	0.8 X 5	6.35	39
5.5	0.8 X 5.5	6.35	39
6	1.0 X 6	6.35	39
8	1.2 X 8	6.35	39

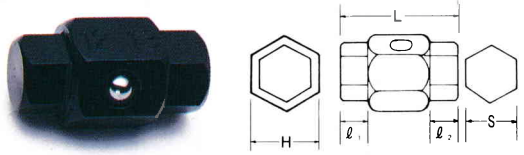
⬡ 108H-25



108H-25 (mm)	D (mm)	L (mm)
3	6.35	25
4	6.35	25
5	6.35	25
6	6.35	25
8	6.35	25
10	6.35	25

DRAIN PLUG KEYS

106

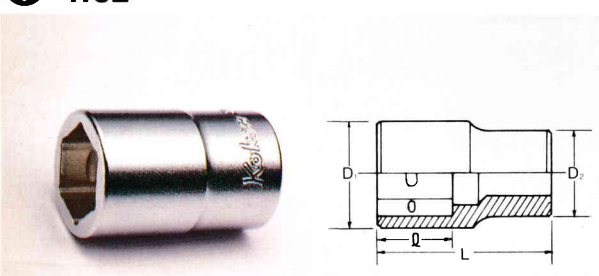


106	H (mm)	ℓ_1 (mm)	ℓ_2 (mm)	L (mm)	⚖ (g)
8S X 10S	17	7.9	7.9	32	40
8H X 3/8H	17	7.9	7.9	32	38
10H X 11H	17	7.9	7.9	32	41.5
12H X 13H	17	7.9	7.9	32	46.5
14H X 17H	17	7.9	7.9	32	55
19H	17	—	7.9	24	49

4202 Drain Plug Key Set

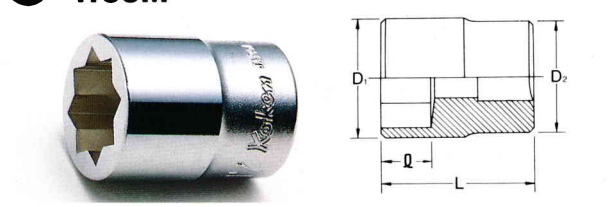
4202 : 7 Pieces Set	⚖ = 426 g
Sockets	106 : 8S × 10S, 8H × 3/8H, 10H × 11H, 12H × 13H, 14H × 17H, 19H 4102
METAL CASE : 145 × 45 × 132 mm	

⬡ 4102 Adaptor 17 mm



L=40mm ⚖=82g

⯃ 4109M 8-point Sockets

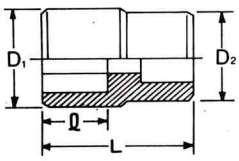


4109M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
14	26.8	26	10	38
17	30	28	10	40
21.5	35	32	14	40

1/2"

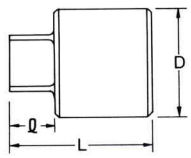
DRAIN PLUG KEYS

4111M 6-point Sockets



4111M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
24	32	30	16	40

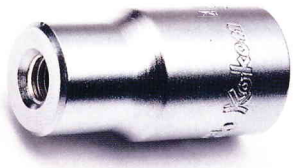
4110M 4-point Male Sockets

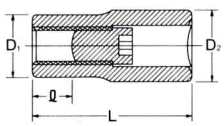


4110M (mm)	D (mm)	ℓ (mm)	L (mm)
8	24	10	32
9.5	24	10	32
12.7	24	10	32
13.5	24	10	32
14	25	15	37
20	26	15	37

STUD BOLT SETTERS

4103M





4103M (mm)		D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
6	6 mm X 1	17	22	8	43	77
8	8 mm X 1.25	18	22	11	43	88
10	10 mm X 1.5	19	23	13	50	102
12	12 mm X 1.75	20	23	13.5	50	104.5

4203M SET

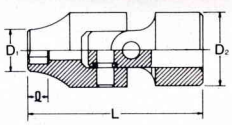
4203M : 4 Pieces Set = 530 g

4103M : 4 Pcs. 6 mm × 1.00, 8 mm × 1.25
10 mm × 1.50, 12 mm × 1.75

METAL CASE : 130 × 67 × 26 mm

UNIVERSAL SOCKETS

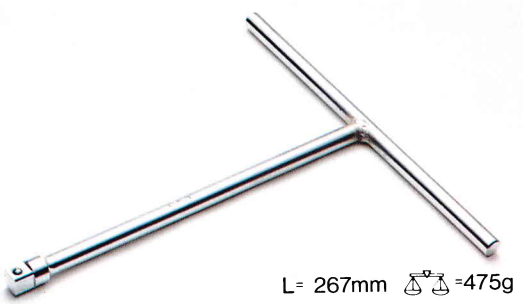
4440M/4440A



4440M (mm)	4440A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
9		13.9	25	7	66	150
	3/8	14.5	25	8	66	155
10		15	25	8	67	155
11	7/16	16.3	25	8	67	158
12		17.6	25	9	68	151
13	1/2	18.8	25	9	68	152
14	9/16	20.4	25	11	70	151
15		21.7	25	11	70	149
16	5/8	22.9	25	11	70	150
17		24	25	11	70	150
	11/16	24	25	11	70	153
18		25	25	13	72	150
19	3/4	26.8	25	13	73	170
21		29.5	25	15	75	176
22	7/8	30	25	15	75	185

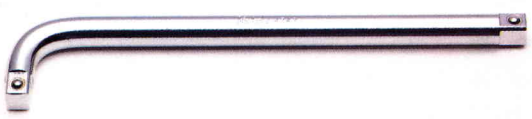
ACCESSORIES

4715
T-Handle



L= 267mm ⚖=475g

4747 L-Handle



L=260×50mm ⚖=445g

4749N-250/-380 Reversible Ratchet

•4749-250 L=250mm ⚖=616g •4749-380 L=380mm ⚖=780g

4749RK Reversible Ratchet Renewal Kit

⚖=112g

4752N Reversible Ratchet

L=250mm ⚖=550g

4752RK Reversible Ratchet Renewal Kit

⚖=80g

4753P Reversible Ratchet

L=250mm ⚖=575g

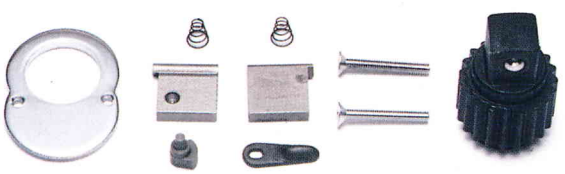
4753N Reversible Ratchet

L=250mm ⚖=538g

4753G Reversible Ratchet

L=250mm ⚖=438g

4753RK Reversible Ratchet Renewal Kit

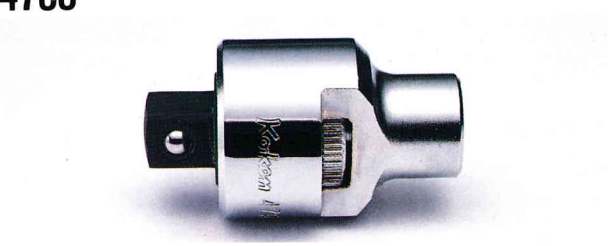


⚖=118g

4749K Reversible Ratchet (Matt Chrome finish)

L=250mm ⚖=615g

4755 Ratchet Adaptor



⚖=270g

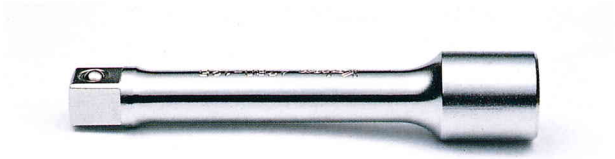
1/2”

ACCESSORIES

4755RK Ratchet Adaptor Renewal Kit

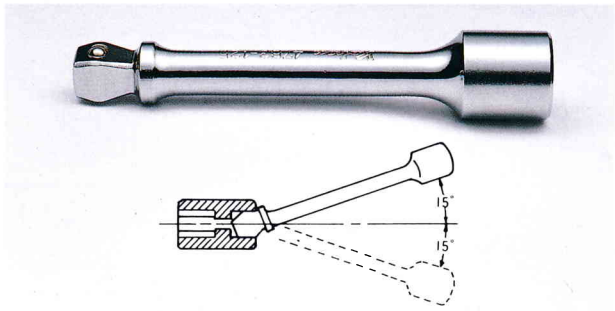
=137g

4760-75/-125/-250/-600 Extension Bar



- 4760-75 L=75mm =144g
- 4760-125 L=125mm =194g
- 4760-250 L=250mm =358g
- 4760-600 L=600mm =968g

4763-50/-125/-250 Offset Extension Bar



- 4763-50 L=50mm =95g
- 4763-125 L=125mm =157g
- 4763-250 L=250mm =357g

4768R-380 Hinge Handle

L=380mm =767g

4768P-380/-450 Hinge Handle

- 4768P-380 L=380mm =665g
- 4768P-450 L=450mm =847g

4768N-300/-380/-450 Hinge Handle

- 4768N-300 L=300mm =600g
- 4768N-380 L=380mm =696g
- 4768N-450 L=450mm =784g

4768G-380/-450 Hinge Handle

- 4768G-380 L=380mm =571g
- 4768G-450 L=450mm =660g

4768RK

=60g

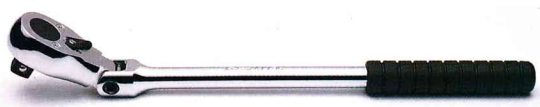
4770 Universal Joint

=150g

4774P Flexible Ratchet Reversible

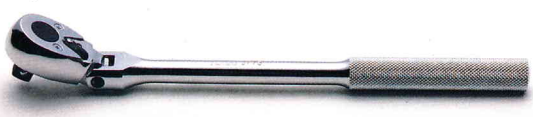
L=320mm

4774G Flexible Ratchet Reversible



L=320mm

4774N Flexible Ratchet Reversible



L=320mm

ACCESSORIES

4775N Flexible Ratchet Reversible

L=320mm ⚖=658g

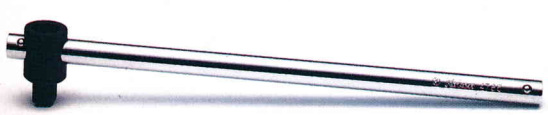
4775G Flexible Ratchet Reversible

L=320mm ⚖=600g

4780-400/-450 Speed Handle

- 4780-400 L=400mm ⚖=644g
- 4780-450 L=450mm ⚖=488g

4785 T-Handle

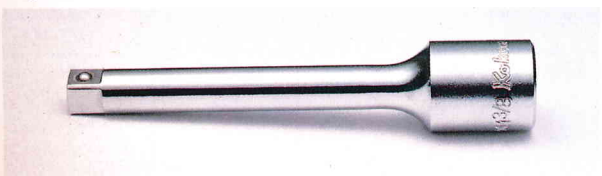


L=300mm ⚖=451g

4788-250/-300 Offset Handle

- 4788-250 L=250mm ⚖=417g
- 4788-300 L=300mm ⚖=503g

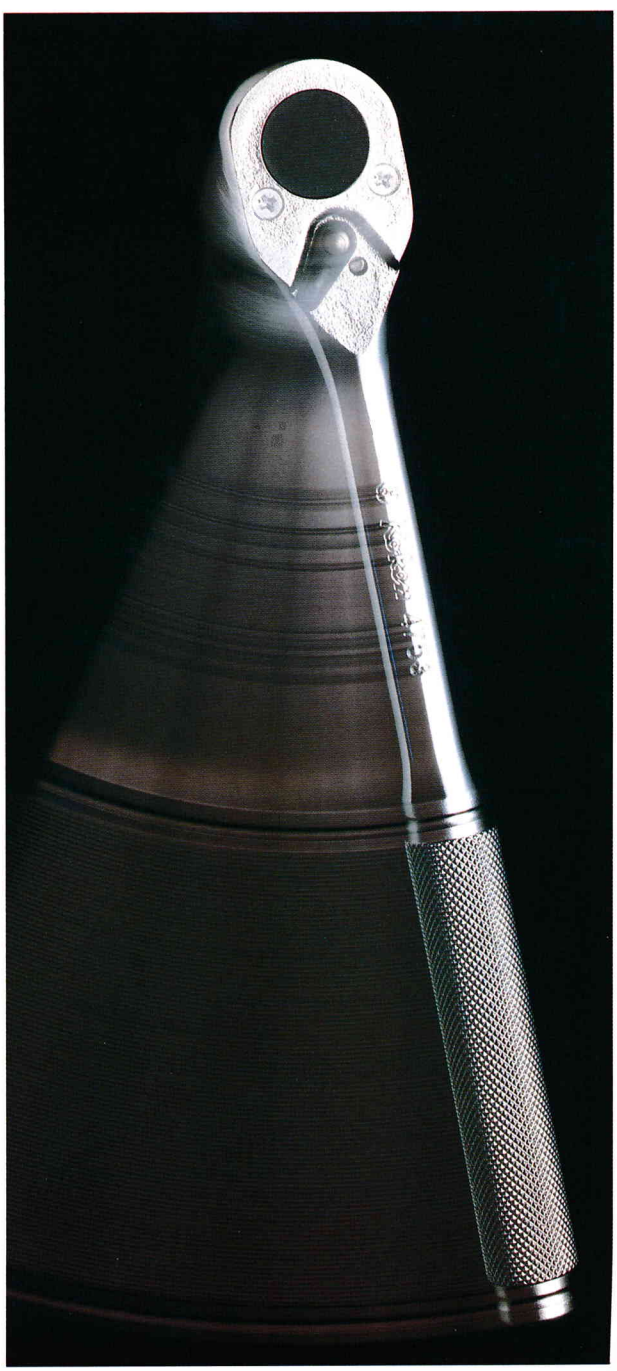
4433A-35/125/600 Adaptor



- 4433A-35 □1/2”×□3/8” L=35mm ⚖=50g
- 4433A-125 □1/2”×□3/8” L=125mm ⚖=164g
- 4433A-600 □1/2”×□3/8” L=600mm ⚖=530g

4466A Adaptor

□1/2”×□3/4” ⚖=108g



1/2"

SOCKET SETS

4213M

4213M : 18 Pieces Set — ⚖ = 3,850 g

Sockets	Accessories
4405M-12 point sockets 13 Pcs. 8, 10, 11, 12, 13, 14, 17, 19, 22, 23, 24, 26, 27	5 Pcs. 4753N 4760-125 4760-250 4770 4785

METAL CASE : 360 × 150 × 50 mm

4230M/4230A

4230M : 17 Pieces Set — ⚖ = 3,150 g

Sockets	Accessories
4405M-12 point sockets 13 Pcs. 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 23, 26	4 Pcs. 4710 4753N 4760-125 4768N-380

METAL CASE : 392 × 90 × 50 mm

4230A : 17 Pieces Set — ⚖ = 3,150 g

Sockets	Accessories
4405A-12 point sockets 13 Pcs. 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16, 1	4 Pcs. 4710 4753N 4760-125 4768N-380

METAL CASE : 392 × 90 × 50 mm

4254

4254 : 12 Pieces Set

Sockets	Accessories
3425 : E6, E8 4425 : E10, E12, E14 3325 : E6, E8 4325 : E10, E12. E14	4433A 4763-50

METAL CASE : 220 × 85 × 45 mm

4238AM

4238AM : 38 Pieces Set — ⚖ = 8,050 g

Sockets	Accessories
4405M-12 point sockets 18 Pcs. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 30, 32 4405A-12 point sockets 13 Pcs. 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1-1/16, 1-1/8, 1-1/4 4305P-Magnet Plug Socket 1 Pc. 20.6	6 Pcs. 4753N 4760-125 4760-250 4770 4780 4785

METAL CASE : 446 × 266 × 50 mm

6-point opening sockets are also available for sets.

SOCKET SETS

4240M / 4240A

4240M = 13,000 g

Sockets

4405M : 117 Pcs. set

10 mm : 9 Pcs.	16 mm : 9 Pcs.	24 mm : 6 Pcs.
11 mm : 9 Pcs.	17 mm : 8 Pcs.	27 mm : 5 Pcs.
12 mm : 9 Pcs.	19 mm : 7 Pcs.	30 mm : 5 Pcs.
13 mm : 9 Pcs.	21 mm : 7 Pcs.	32 mm : 4 Pcs.
14 mm : 9 Pcs.	22 mm : 6 Pcs.	
15 mm : 9 Pcs.	23 mm : 6 Pcs.	

METAL CASE : 510 × 150 × 230 mm

4240A = 10,000 g

Sockets

4405A : 103 Pcs. set

3/8″ : 9 Pcs.	11/16″ : 8 Pcs.	1″ : 5 Pcs.
7/16″ : 9 Pcs.	3/4″ : 7 Pcs.	1-1/16″ : 5 Pcs.
1/2″ : 9 Pcs.	13/16″ : 7 Pcs.	1-1/8″ : 5 Pcs.
9/16″ : 9 Pcs.	7/8″ : 6 Pcs.	1-3/16″ : 5 Pcs.
5/8″ : 9 Pcs.	15/16″ : 6 Pcs.	1-1/4″ : 4 Pcs.

METAL CASE : 510 × 150 × 230 mm

4241M / 4241A

4241M : 28 Pieces Set = 6,500 g

Sockets	Accessories
4405M-12 point sockets 22 Pcs. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32	6 Pcs. **4753N, 4760-125** **4760-250, 4768N-380** **4770, 4785**

METAL CASE : 445 × 190 × 50 mm

4241A : 19 Pieces Set = 5,350 g

Sockets	Accessories
4405A-12 point sockets 13 Pcs. 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1-1/16, 1-1/8, 1-1/4	6 Pcs. **4753N, 4760-125** **4760-250, 4768N-380** **4770, 4785**

METAL CASE : 445 × 190 × 50 mm

1/2”

SOCKET SETS

4244M/4244A

4244M : 22 Pieces Set	⚖ = 5,500 g
Sockets	Accessories
4405M-12 point sockets 15 Pcs. 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 23, 26, 29, 32	7 Pcs. **4710** **4753N** **4760-125** **4760-250** **4768N-380** **4770** **4785**
METAL CASE : 445 × 190 × 50 mm	

4244A : 22 Pieces Set	⚖ = 5,650 g
Sockets	Accessories
4405A-12 point sockets 15 Pcs. 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16, 1, 1-1/8, 1-1/4	7 Pcs. **4710** **4753N** **4760-125** **4760-250** **4768N-380** **4770** **4785**
METAL CASE : 445 × 190 × 50 mm	

SOCKET SETS

4247AM

4247AM : 48 Pieces Set — ⚖ = 16,000 g

Sockets	Accessories
4405M-12 point sockets 15 Pcs. 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 23, 26, 29, 32 4405A-12 point sockets 15 Pcs. 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16, 1, 1-1/8, 1-1/4 6405A-12 point sockets 8 Pcs. 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-3/8, 1-7/16, 1-1/2, 1-5/8	10 Pcs. 4710 4753N 4760-125 4760-250 4768N-380 4770 4780 4785 6760-200 6785

METAL CASE : 410 × 180 × 185 mm

4248AM

4248AM : 25 Pieces Set — ⚖ = 6,000 g

Sockets	Accessories
4405M-12 point sockets 9 Pcs. 10, 11, 12, 13, 14, 15, 17, 19, 22 4405A-12 point sockets 9 Pcs. 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8 4305P-Magnet Plug Socket 1 Pc. 20.6	6 Pcs. 4753N 4760-125 4760-250 4770 4780 4785

METAL CASE : 446 × 266 × 50 mm

4248M

4248M : 24 Pieces Set — ⚖ = 5,700 g

Sockets	Accessories
4405M-12 point sockets 18 Pcs. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 30, 32	6 Pcs. 4753N, 4760-125 4760-250, 4770 4780, 4785

METAL CASE : 445 × 190 × 50 mm

4250M

4250M : 18 Pieces Set — ⚖ = 3,700 g

Sockets	Accessories
4405M-12 point sockets 13 Pcs. 10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30, 32	5 Pcs. 4753N, 4760-125 4760-250, 4770 4785

METAL CASE : 370 × 155 × 50 mm

1/2”

SOCKET SETS

4251M/4251A

4251M : 22 Pieces Set	⚖ = 3,200 g
Sockets	4405M-12 point sockets 22 Pcs. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32
METAL CASE : 330 × 68 × 48 mm	

4251A : 18 Pieces Set	
Sockets	4405A-12 point sockets 18 Pcs. 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 21/32, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4
METAL CASE : 330 × 68 × 48 mm	

4252M/4252A

4252M : 13 Pieces Set	⚖ = 1,200 g
Sockets	4400M-6 point sockets 13 Pcs. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22
METAL CASE : 168 × 60 × 42 mm	

4252A : 13 Pieces Set	
Sockets	4400A-6 point sockets 13 Pcs. 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 21/32, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16
METAL CASE : 168 × 60 × 42 mm	

4280AM

4280AM : 27 Pieces Set	⚖ = 5,000 g
Sockets	Accessories
4405M-12 point sockets 12 Pcs. 7, 8, 10, 11, 12, 13, 14, 15, 16, 18, 19, 22 4405A-12 point sockets 9 Pcs. 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8 4305P-Magnet Plug Socket 1 Pc. 20.6	5 Pcs. 4753N 4760-125 4760-250 4768N-380 4770
METAL CASE : 445 × 190 × 50 mm	

SOCKET SETS

A4241M

We are pleased to offer you a novelty not only in the tools but also in our tool boxes.

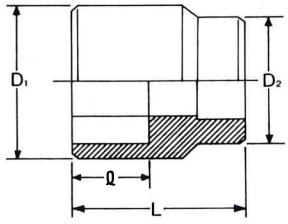
Koken TOOL CO., LTD.

3/4”

SOCKETS

6400M 6400A

6-point Sockets



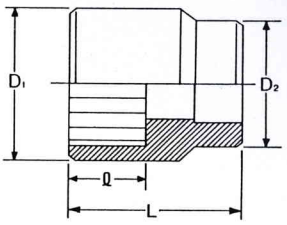
6400M (mm)	6400A (inch)	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)	(g)
17		27	34	10	50	176
18	11/16	28	34	10	50	178
19	3/4	29	34	10	50	179
20	25/32	30	34	10	50	185
21	13/16	31	34	10	50	185
22	7/8	32	34	14	50	187
23		33	34	14	50	187
24	15/16	34.3	33.8	16	50	200
25		36	34	16	50	217
26	1	37	34	16	50	222
27	1- 1/16	38	37	18	53	254
28		40	38	18	53	298
29	1- 1/8	40	38	18	53	292
30	1- 3/16	42	38	20	55	301
31		42	38	20	55	294
32	1- 1/4	44	40	22	57	351
33	1- 5/16	46	40	22	57	384
34		47	40	22	57	397
35	1- 3/8	48	42	22	57	422
36		49	42	24	59	438
37	1- 7/16	51	42	24	59	484
38	1- 1/2	52	45	24	59	523
39		53	45	24	59	538
40	1- 9/16	54	45	24	59	550
41	1- 5/8	56	48	27	62	633
42		57	48	27	62	652
43	1-11/16	58	48	27	62	659
44	1- 3/4	59	48	27	62	657
45		61	50	28	62	734

6400M (mm)	6400A (inch)	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)	(g)
46	1-13/16	62	50	30	68	791
47		63	50	30	68	816
48	1- 7/8	64	55	30	68	892
	1 15/16	66	55	30	68	928
50		67	55	33	68	948
	2	68	55	33	68	949
52		69	55	33	72	925
	2- 1/16	71	54	33	72	983
54	2- 1/8	73	55	33	72	1040
55		74	53	36	72	1006
56	2- 3/16	75	54	36	72	1092
57	2- 1/4	77	55	36	72	1169
58		78	55	36	72	1149
	2- 5/16	79	66	36	72	1344
60	2- 3/8	80	66	39	74	1402
	2- 7/16	83	66	39	74	
63		84	66	39	74	1494
	2- 1/2	85	67	39	74	1497
65	2- 9/16	86	66	42	78	1608
	2- 5/8	89	66	42	78	1709
	2-11/16	90	66	42	78	1634
70	2- 3/4	92	66	45	80	1785
	2-13/16	95	75	45	80	
	2- 7/8	96	75	45	80	
75	2-15/16	99	73	48	84	2186
	3	102	75	48	84	2309
80	3- 1/8	105	75	52	86	2475
85		110	80	52	86	2620

SOCKETS

6405M
6405A

12-point Sockets



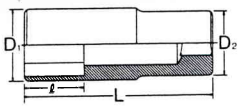
6405M (mm)	6405A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
17		27	34	10	50	175
18	11/16	28	34	10	50	175
19	3/4	29	34	10	50	190
20	25/32	30	34	10	50	181
21	13/16	31	34	10	50	184
22	7/8	32	34	14	50	187
23		33	34	14	50	189
24	15/16	34.3	33.8	16	50	194
25		36	34	16	50	208
26	1	37	34	16	50	216
27	1- 1/16	38	37	18	53	254
28		40	38	18	53	291
29	1- 1/8	40	38	18	53	287
30	1- 3/16	42	38	20	55	299
31		42	38	20	55	286
32	1- 1/4	44	40	22	57	332
33	1- 5/16	46	40	22	57	385
34		47	40	22	57	382
35	1- 3/8	48	42	22	57	412
36		49	42	24	59	420
37	1- 7/16	51	42	24	59	472
38	1- 1/2	52	45	24	59	508
39		53	45	24	59	520
40	1- 9/16	54	45	24	59	538
41	1- 5/8	56	48	27	62	606
42		57	48	27	62	634
43	1-11/16	58	48	27	62	635
44	1- 3/4	59	48	27	62	642
45		61	50	28	62	720

6405M (mm)	6405A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
46	1-13/16	62	50	30	68	762
47		63	50	30	68	785
48	1- 7/8	64	55	30	68	810
	1-15/16	66	55	30	68	880
50		67	55	33	68	914
	2	68	55	33	68	921
52		69	55	33	72	892
	2- 1/16	71	54	33	72	935
54	2- 1/8	73	55	33	72	972
55		74	53	36	72	950
56	2- 3/16	75	54	36	72	1035
57	2- 1/4	77	55	36	72	1062
58		78	55	36	72	1075
	2- 5/16	79	66	36	72	1284
60	2- 3/8	80	66	39	74	1290
	2- 7/16	83	66	39	74	1418
63		84	66	39	74	1425
	2- 1/2	85	67	39	74	1455
65	2- 9/16	86	66	42	78	1582
	2- 5/8	89	66	42	78	1578
	2-11/16	90	66	42	78	1554
70	2- 3/4	92	66	45	80	1647
	2-13/16	95	75	45	80	
	2- 7/8	96	75	45	80	
75	2-15/16	99	73	48	84	
	3	102	75	48	84	2190
80	3- 1/8	105	75	52	86	2249
85		110	80	52	86	

3/4”

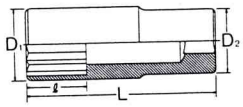
SOCKETS

6300M/6300A 6-point Deep Sockets



6300M (mm)	6300A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
19	3/4	29	34	18	90	355
20	25/32	30	34	18	90	360
21	13/16	31	34	18	90	360
22	7/8	32	34	21	90	366
23		33	34	21	90	370
24	15/16	34.3	33.8	24	90	372
25		36	33.8	24	90	400
26	1	37	33.8	24	90	421
27	1- 1/16	38	37	27	90	456
28		40	38	27	90	483
29	1- 1/8	40	38	27	90	512
30	1- 3/16	42	40	30	90	500
31		42	40	30	90	526
32	1- 1/4	44	42	33	90	554
33	1- 5/16	46	42	33	90	597
34		47	44	33	90	655
35	1- 3/8	48	44	33	90	666
36		49	45	36	90	683
	1- 7/16	51	45	36	90	
38	1- 1/2	52	45	36	90	748
40	1- 9/16	54	45	36	90	
41	1- 5/8	56	48	40	90	862
42		57	48	40	90	889
	1-11/16	58	48	40	90	
44	1- 3/4	59	48	40	90	
46	1-13/16	62	50	45	90	
50		66	55	50	90	
53	2- 1/16	71	54	61	100	
54	2- 1/8	73	55	61	100	
55		74	53	64	100	
	2- 3/16	75	54	64	100	
57	2- 1/4	77	55	64	100	
58		78	55	64	100	
	2- 5/16	79	66	64	100	
60	2- 3/8	80	66	67	100	
	2- 7/16	83	66	67	100	
63		84	66	67	100	

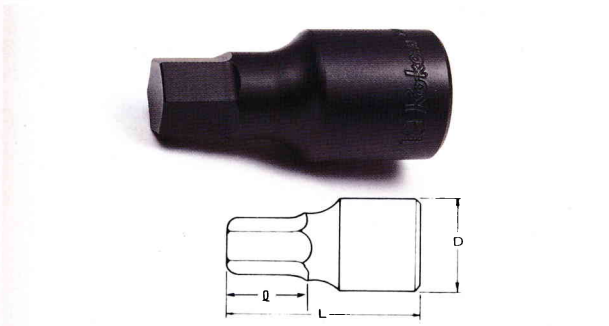
6305M/6305A 12-point Deep Sockets



6305M (mm)	6305A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
19	3/4	29	34	18	90	343
20	25/32	30	34	18	90	315
21	13/16	31	34	18	90	360
22	7/8	32	34	21	90	365
23		33	34	21	90	370
24	15/16	34.3	33.8	24	90	368
25		36	33.8	24	90	396
26	1	37	33.8	24	90	408
27	1- 1/16	38	37	27	90	432
28		40	38	27	90	503
29	1- 1/8	40	38	27	90	490
30	1- 3/16	42	40	30	90	482
31		42	40	30	90	
32	1- 1/4	44	42	33	90	532
33	1- 5/16	46	42	33	90	582
34		47	44	33	90	616
35	1- 3/8	48	44	33	90	652
36		49	45	36	90	687
	1- 7/16	51	45	36	90	734
38	1- 1/2	52	45	36	90	726
40	1- 9/16	54	45	36	90	756
41	1- 5/8	56	48	40	90	824
42		57	48	40	90	830
	1-11/16	58	48	40	90	854
44	1- 3/4	59	48	40	90	868
46	1-13/16	62	50	45	90	920
50		66	55	50	90	870
53	2- 1/16	71	54	61	100	
54	2- 1/8	73	55	61	100	1315
55		74	53	64	100	
	2- 3/16	75	54	64	100	1354
57	2- 1/4	77	55	64	100	
58		78	55	64	100	
	2- 5/16	79	66	64	100	
60	2- 3/8	80	66	67	100	
	2- 7/16	83	66	67	100	
63		84	66	67	100	

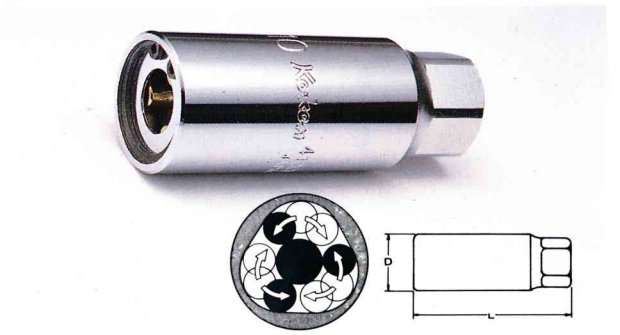
HEX SOCKETS

6012M Hex Sockets



6012M (mm)	D (mm)	ℓ (mm)	L (mm)	⚖ (g)
14	35	15.5	75	265
17	35	15.5	75	292
19	35	15.5	75	312
22	35	22.5	75	340
24	35	22.5	75	
27	35	22.5	75	

6100M Screw and Stud Pallers



6100M (mm)	D (mm)	L (mm)
18	48	100
20	48	100
22	48	100
24	48	100
27	63	125
28	48	125
29	48	125
30	48	125

ACCESSORIES

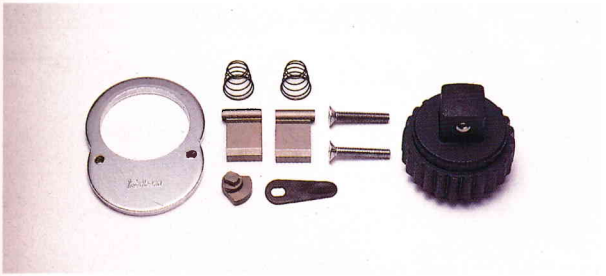
6112 Attack Driver

L=190mm ⚖=1900g

6749 Reversible Ratchet

L=550mm ⚖=2800g

6749RK Reversible Ratchet Renewal Kit

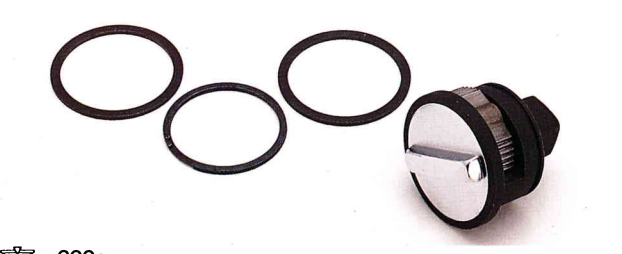


⚖=580g

6752 Reversible Ratchet

L=500mm ⚖=2380

6752RK Reversible Ratchet Renewal Kit



⚖=600g

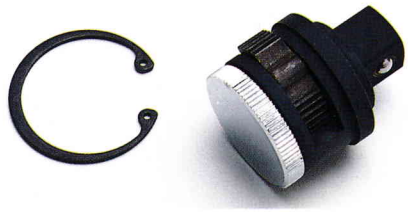
6755 Ratchet Adaptor

⚖=1162g

3/4"

ACCESSORIES

6755RK Ratchet Adaptor Renewal Kit



⚖=550g

6760-75/-200/-400 Extension Bar

- **6760-75** L=75mm ⚖=335g
- **6760-200** L=200mm ⚖=815g
- **6760-400** L=400mm ⚖=1585g

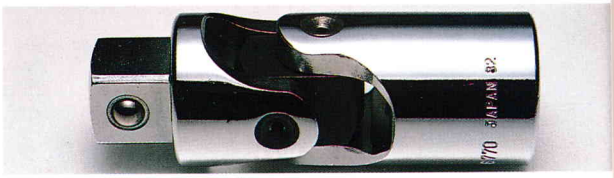
6768 Hinge Handle

L=450mm ⚖=1715g

6768RK

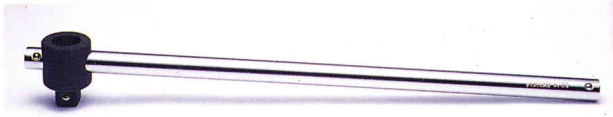
⚖=175g

6770 Universal Joint



⚖=478g

6785 T-Handle



L=500mm ⚖=1542g

6788 L-Handle

L=330mm ⚖=1175g

6644A/6688A Adaptor

- **6644A** ⚖=136g
- **6688A** ⚖=285g

SOCKET SETS

6201M/6201A

6201M : 16 Pieces Set	⚖= 17,300 g
Sockets	Accessories
6405M-12 point sockets 11 Pcs. 22, 24, 27, 30, 32, 36, 41, 46, 50, 55, 60	5 Pcs. **6749,** 6760-200, **6760-400, 6768, 6785**
METAL CASE : 540 × 200 × 85 mm	

6201A : 18 Pieces Set	⚖= 17,600 g
Sockets	Accessories
6405A-12 point sockets 13 Pcs. 7/8, 15/16, 1-1/16, 1-1/8, 1-1/4, 1-5/16, 1-7/16, 1-1/2, 1-5/8, 1-11/16, 1-13/16, 1-7/8, 2	5 Pcs. **6749,** 6760-200, **6760-400 6768, 6785**
METAL CASE : 540 × 200 × 85 mm	

SOCKET SETS

6212M

6212M : 12 Pieces Set	⚖ = 8,200 g
Sockets	Accessories
6405M-12 point sockets 9 Pcs. 22, 24, 27, 30, 32, 36, 41, 46, 50	3 Pcs. 6749 6760-200 6785
METAL CASE : 530 × 124 × 70 mm	

6220M/6220A

6220M : 9 Pieces Set	⚖ = 7,400 g
Sockets	Accessories
6405M-12 point sockets 7 Pcs. 26, 29, 32, 35, 38, 41, 46	2 Pcs. 6760-200 6785
METAL CASE : 530 × 124 × 70 mm	

6220A : 10 Pieces Set	⚖ = 7,400 g
Sockets	Accessories
6405A-12 point sockets 8 Pcs. 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-3/8, 1-7/16, 1-1/2, 1-5/8	2 Pcs. 6760-200 6785
METAL CASE : 530 × 124 × 70 mm	

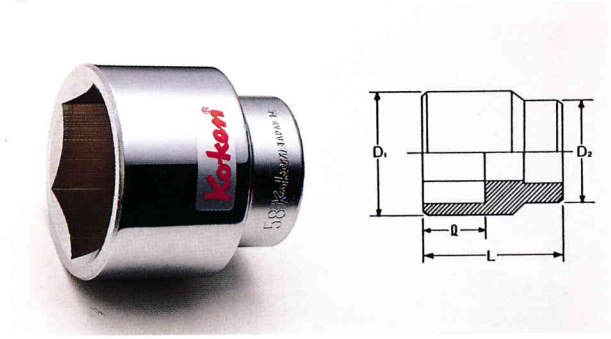
6260M/6260A

6260M : 20 Pieces Set	⚖ = 15,800 g
Sockets	Accessories
6405M-12 point sockets 13 Pcs. 21, 23, 26, 29, 31, 32, 34, 35, 36, 38, 41, 46, 50	7 Pcs. 6101 6749 6760-75 6760-200 6760-400 6770 6785
METAL CASE : 530 × 198 × 80 mm	

6260A : 25 Pieces Set	⚖ = 19,000 g
Sockets	Accessories
6405A-12 point sockets 18 Pcs. 15/16, 31/32, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2, 1-9/16, 1-5/8, 1-11/16, 1-3/4, 1-13/16, 1-7/8, 2	7 Pcs. 6101 6749 6760-75 6760-200 6760-400 6770 6785
METAL CASE : 530 × 198 × 80 mm	

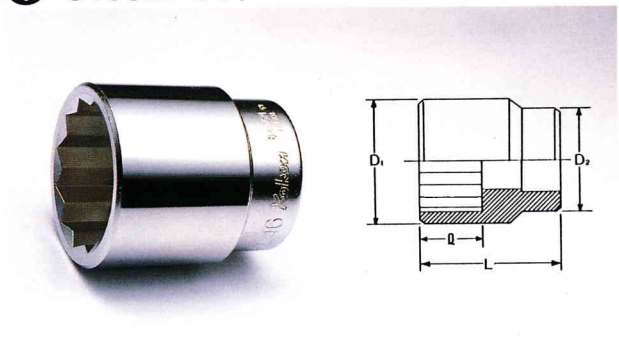
SOCKETS

8400M/8400A 6-point Sockets



8400M (mm)	8400A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
32	1- 1/4	47	45	25	65	476
33	1- 5/16	48	46	25	65	
35	1- 3/8	50	48	25	65	555
36		52	50	25	65	618
	1- 7/16	53	50	25	65	660
38	1- 1/2	54	50	25	65	637
41	1- 5/8	58	53	28	68	785
	1- 3/4	61	55	28	68	850
46	1-13/16	64	55	31	72	963
50		68	55	33	72	1003
	2	69	55	33	72	1040
54	2- 1/8	74	55	37	72	1060
55		76	56	42	77	1197
	2- 1/4	78	57	42	77	1270
58		79	57	42	77	1307
60	2- 3/8	82	61	46	82	1510
63		85	61	45	82	
	2- 1/2	86	61	45	82	1627
65	2- 9/16	87	66	49	86	
70	2- 3/4	94	70	48	86	2080
75	2-15/16	100	75	51	87	
80	3- 1/8	107	75	52	87	2700
85		113	80	52	87	2950
90	3- 1/2	119	80	56	100	
95	3- 3/4	125	85	56	100	3950
100		127	85	56	100	4000

8405M/8405A 12-point Sockets



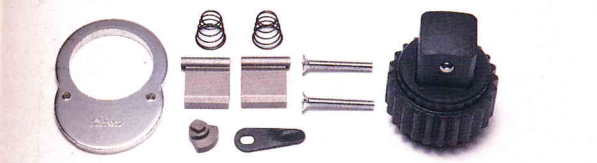
8405M (mm)	8405A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
32	1- 1/4	47	45	25	65	455
33	1- 5/16	48	46	25	65	485
35	1- 3/8	50	48	25	65	536
36		52	50	25	65	600
	1- 7/16	53	50	25	65	607
38	1- 1/2	54	50	25	65	624
40	1- 9/16	56	53	25	65	686
41	1- 5/8	58	53	28	68	747
	1-11/16	60	55	28	68	830
	1- 3/4	61	55	28	68	807
46	1-13/16	64	55	31	72	928
50		68	55	33	72	943
	2	69	55	33	72	976
	2- 1/16	73	55	37	72	
54	2- 1/8	74	55	37	72	1016
55		76	56	42	77	1167
	2- 3/16	77	56	42	77	1192
	2- 1/4	78	57	42	77	1177
58		79	57	42	77	1200
	2- 5/16	81	57	42	77	1292
60	2- 3/8	82	61	46	82	1440
	2- 7/16	84	61	46	82	1495
63		85	61	45	82	1470
	2- 1/2	86	61	45	82	1497
65	2- 9/16	87	66	49	86	1683
67	2- 5/8	90	66	48	86	1840
	2-11/16	91	66	48	86	1800
70	2- 3/4	94	70	48	86	1963
71		95	70	48	86	2200
	2-13/16	96	70	48	86	2035
	2- 7/8	98	70	48	86	2100
75	2-15/16	100	75	51	87	2204
	3	103	75	51	87	2406
80	3- 1/8	107	75	52	87	2550
	3- 1/4	111	80	52	87	2730
85		113	80	52	87	2680
90	3- 1/2	119	80	56	100	
95	3- 3/4	125	85	56	100	4900
100		127	85	56	100	4840

ACCESSORIES

8749 Reversible Ratchet

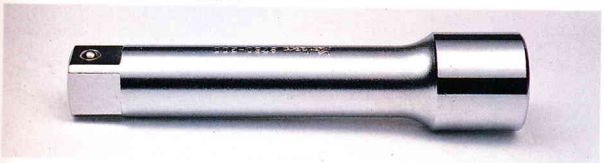
L=800mm ⚖=4090g

8749RK Reversible Ratchet Renewal Kit



⚖=788g

8760-200/-400 Extension Bar

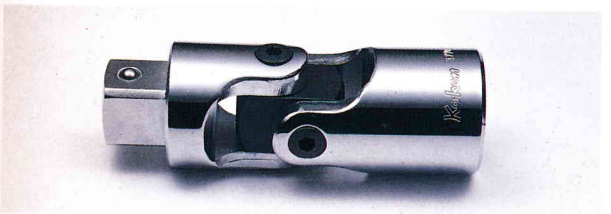


- 8760-200 L=200mm ⚖=1300g
- 8760-400 L=400mm ⚖=2570g

8768 Hinge Handle

L=600mm ⚖=3540g

8770 Universal Joint



⚖=1170g

8785 T-Handle

L=550mm ⚖=3190g

8866A Adaptor

⚖=338g

SOCKET SETS

8200M/8200A

8200M : 12 Pieces Set	⚖ = 18,600 g
Sockets	Accessories
8405M-12 point sockets 8 Pcs. 35, 38, 41, 46, 50, 54, 58, 63	4 Pcs. 8760-200 8760-400 8770 8785
METAL CASE : 635 × 150 × 100 mm	

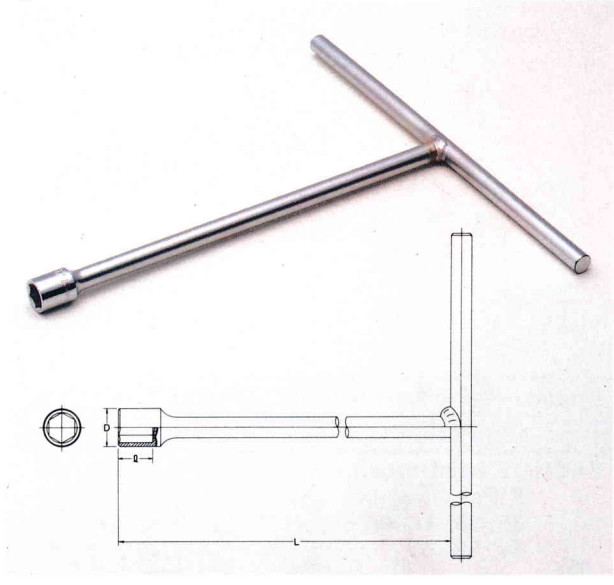
8200A : 12 Pieces Set	⚖ = 18,600 g
Sockets	Accessories
8405A-12 point sockets 8 Pcs. 1-7/16, 1-1/2, 1-5/8, 1-13/16, 2, 2-1/8, 2-1/4, 2-1/2	4 Pcs. 8760-200 8760-400 8770 8785
METAL CASE : 635 × 150 × 100 mm	

8225M

8225M : 15 Pieces Set	⚖ = 27,000 g
Sockets	Accessories
8405M-12 point sockets 12 Pcs. 32, 33, 36, 41, 46, 50, 55, 60, 65, 70, 75, 80	3 Pcs. 8749 8760-200 8760-400
METAL CASE : 600 × 105 × 120 mm	

T-TYPE WRENCHES

⬡ 104M



104M (mm)	D (mm)	ℓ (mm)	L (mm)	⚖ (g)
6	9.5	8	200	150
7	11	9	200	152
8	12	10	200	154
9	14	12	200	155
10	14	13	250	230
11	16	14	250	234
12	18	15	250	384
13	18.5	17	300	412
14	20	18	300	428
15	21	19	300	428
17	24	22	350	707
18	25	23	350	707
19	26.5	25	350	717
21	29	27	350	1070
22	30	28	350	1062

Koken®

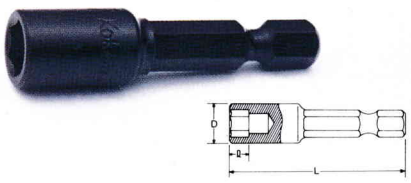
IMPACT SOCKETS

ACCORDING TO DIN 3129/3121.

Please observe our safety advices page 4.

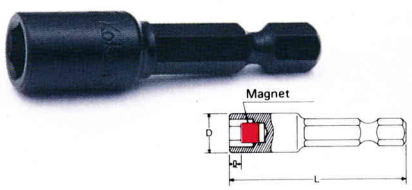
NUT SETTERS

⬡ 113



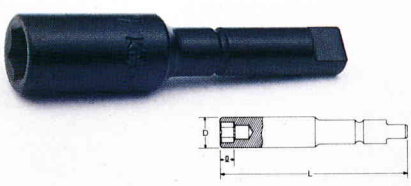
113 (mm)	113 (inch)	D (mm)	ℓ (mm)	L (mm)	(g)
5.5		9	4	50	15
6	1/4	10	5	50	16.7
7		11	5	50	18.8
8	5/16	12	6	50	19.6
10	3/8	14	7	50	31
12		17	8	50	39
13	1/2	18	8	50	41.5

⬡ 115
with Magnet



115 (mm)	115 (inch)	D (mm)	ℓ (mm)	L (mm)	(g)
5.5		9	2.1	50	15.2
6	1/4	10	2.4	50	17
7		11	2.8	50	19
8	5/16	12	3.5	50	19.7
10	3/8	14	4.2	50	29.3
12		17	5.6	50	40
13		18	6.0	50	49.7

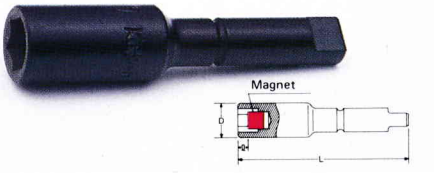
⬡ 118



118 (mm)	118 (inch)	D (mm)	ℓ (mm)	L (mm)	(g)
5.5		9	4	50	
6	1/4	10	5	50	
7		11	5	50	
8	5/16	12	6	50	
10	3/8	14	7	50	
12		17	8	50	
13		18	8	50	

Nut Setters No. 110, 113 and 115 fit for ARO, Atlas Copco, Black & Decker, Bosch, Deprag, Gardner, Ingersoll, Makita, Premag, Skil, Stanley, Thor, Virax machines.

⬡ 119
with Magnet



119 (mm)	119 (inch)	D (mm)	ℓ (mm)	L (mm)	(g)
5.5		9	2.1	50	
6	1/4	10	2.4	50	20.2
7		11	2.8	50	22
8	5/16	12	3.5	50	23.4
10	3/8	14	4.2	50	
12		17	5.6	50	
13		18	6.0	50	37

■ 117-50/-100 Adaptor

•117-50 L=50mm •117-100 L=100mm

■ 110-35/-50/-100/-150 Adaptor 1/4"M(4P)×1/4"M(6P)

•110-35 L=35mm •110-50 L=50mm
•110-100 L=100mm •110-150 L=150mm

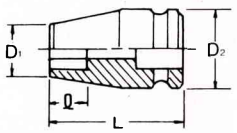
■ 112-50/-100/-150 Adaptor 3/8"M(4P)×1/4"M(6P)

•112-50 L=50mm •112-100 L=100mm
•112-150 L=150mm

Nut Setters No. 117, 118 and 119 fit for AEG, Baier, Fein machines.

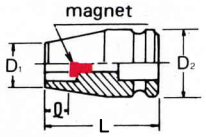
SOCKETS

12400M/12400A 6-point Sockets



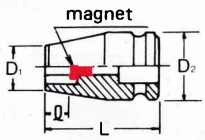
12400M (mm)	12400A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
4		7.5	13	4	23	14
4.5	3/16	8.1	13	4	23	14
5		8.8	13	4	23	14
5.5		9.4	13	4	23	14
6	1/4	10	13	5	23	14
7	9/32	11.3	13	5	23	14
8	5/16	12.5	13	6	23	14
9	11/32	13.8	13	7	23	14
10	3/8	15	13	7	23	15
11	7/16	16.3	13	8	23	18
12		17.5	13	8	23	19
13	1/2	18.8	13	8	23	19
14	9/16	20	13	9	23	20

12400MG/12400AG 6-point Socket with Magnet



12400MG (mm)	12400AG (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
4		7.5	13	2.1	23	12
5	3/16	8.8	13	2.1	23	14.6
6	1/4	10	13	2.4	23	16
7		11.3	13	2.8	23	16
8	5/16	12.5	13	3.5	25	17
9	11/32	13.8	13	3.8	27	18
10	3/8	15	13	4.2	28	18
11	7/16	16.3	13	4.9	29	21
12		17.5	13	5.6	30	21
13	1/2	18.8	13	6	30	21
14	9/16	20	13	6.4	30	20.3

12460MG/12460AG Impact Socket for Self-Tapping Screws with Magnet



12460MG (mm)	12460AG (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
6	1/4	10.3	13	2.4	23	16.4
7		11.6	13	2.8	23	15.4
8	5/16	12.8	13	3.5	25	17.6
10	3/8	15.3	13	4.2	28	23.8
13	1/2	19.1	13	6.0	30	33.3

ACCESSORIES

12760-55/-75 Extension Bar

- 12760-55 L=55mm ⚖=26g
- 12760-75 L=75mm ⚖=45g

12770 Universal Joint

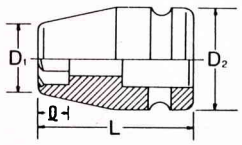
⚖=30g

12233A Adaptor

凹1/4"×凸3/8" ⚖=15g

SOCKETS

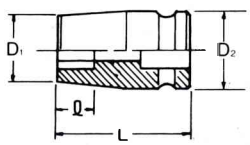
12465M PATHFINDER Sockets with Engagement Bevel



12465M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
10	15	13	8	23
11	16.3	13	8	23
12	17.5	13	9	23
13	18.8	13	9	23

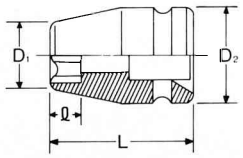
The bevelled flats of the 6-point opening of the PATHFINDER® socket engage the nut almost immediately, thus speeding productivity as the power tool must not each time be started or be stopped, an advantage for all automatic assemblies.

12410M SURFACE DRIVE Sockets



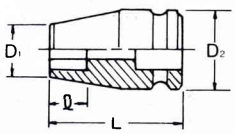
12410M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
7	11.3	13	5	23	14.7
8	12.5	13	6	23	14.7
9	13.8	13	7	23	13.9
10	15	13	7	23	14.1
11	16.3	13	8	23	17.3
12	17.5	13	8	23	18.6
13	18.8	13	8	23	18.9

12425 Hex. Lobular Sockets



12425	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
E 4	6.6	13	3.2	23
E 5	7.7	13	3.2	23
E 6	8.7	13	4.0	23
E 7	9.2	13	4.8	23
E 8	9.7	13	5.6	23
E10	12.2	13	6.4	23

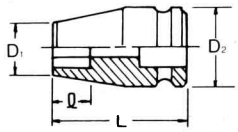
12460M/12460A Impact Socket for Self-Tapping Screws



12460M (mm)	12460A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
6	1/4	10.3	13	5	23	15
7		11.6	13	5	23	15.7
8	5/16	12.8	13	6	23	15.5
10	3/8	15.3	13	7	23	18.5
13	1/2	19.1	13	8	23	22.8

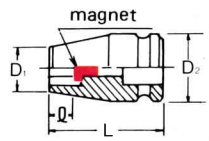
SOCKETS

13400M/13400A 6-point Sockets



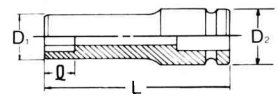
13400M (mm)	13400A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
6	1/4	10.8	19	5	32	40
7		12	19	5	32	40
8	5/16	13.3	19	6	32	40
9		14.5	19	7	32	40
10	3/8	15.8	19	7	32	40
11	7/16	17	19	8	32	41
12		18.3	19	9	32	43
13	1/2	19.5	22	10	32	56
14	9/16	20.8	22	10	32	56
15		22	22	11	32	56
16	5/8	23.3	22	11	32	57
17	11/16	24.5	22	12	32	60
18		25.8	22	12	32	62
19	3/4	27	22	12	32	67
21	13/16	29.5	22	12	32	71
22	7/8	30.8	22	13	32	72
23		32	22	13	32	75

13400MG/13400AG 6-point Sockets with Magnet



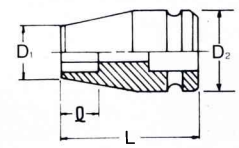
13400MG (mm)	13400AG (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
6	1/4	10.8	19	2.4	32	45.5
7		12	19	2.8	32	44.5
8	5/16	13.3	19	3.5	32	45
9	11/32	14.5	19	3.8	32	43.5
10	3/8	15.8	19	4.2	33	49
11	7/16	17	19	4.9	33	50
12		18.3	19	5.6	34	55
13	1/2	19.5	22	6	34	70
14	9/16	20.8	22	6.4	35	76
15		22	22	6.8	35	76
16	5/8	23.3	22	7	38	88
17	11/16	24.5	22	7.5	38	95
18		25.8	22	7.8	40	105
19	3/4	27	22	8	40	116

13300M/13300A 6-point Deep Sockets



13300M (mm)	13300A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
6	1/4	10.8	19	6	80	77
7		12	19	7	80	82
8	5/16	13.3	19	8	80	88
9		14.5	19	9	80	88
10	3/8	15.8	19	10	80	94
11	7/16	17	19	11	80	110
12		18.3	19	12	80	111
13	1/2	19.5	22	13	80	138
14	9/16	20.8	22	14	80	148
15		22	22	15	80	157
16	5/8	23.3	22	16	80	156
17	11/16	24.5	22	17	80	168
18		25.8	22	18	80	
19	3/4	27	22	19	80	192
20		28.3	22	20	80	224
21	13/16	29.5	22	21	80	226
22	7/8	30.8	22	22	80	231

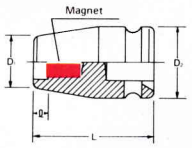
13460M/13460A Impact Socket for Self-Tapping Screws



13460M (mm)	13460A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
6	1/4	11.4	19	5	32	42.4
7		12.8	19	5	32	43.8
8		14.1	19	6	32	44.4
10	3/8	16.6	19	7	32	45
13	1/2	20.3	22	10	32	60

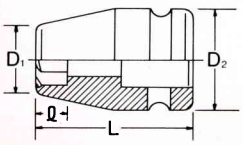
SOCKETS

13460MG/13460AG Impact Socket for Self-Tapping Screws (with Magnet)



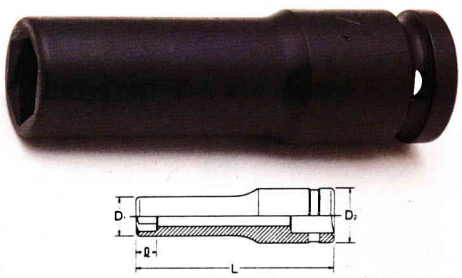
13460MG (mm)	13460AG (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
6	1/4	11.4	19	2.4	32	44
7		12.8	19	2.8	32	46
8	5/16	14.1	19	3.5	32	
10	3/8	16.6	19	4.2	33	54
13	1/2	20.3	22	6.0	34	81

13465M PATHFINDER Sockets with Engagement Bevel



13465M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
10	15.8	19	8	32
11	17	19	8	32
12	18.3	19	9	32
13	19.5	22	9	32
14	20.8	22	11	32
15	22	22	11	32
16	23.3	22	11	32
17	24.5	22	12	32
19	27	22	13	32

13365M PATHFINDER Sockets with Engagement Bevel

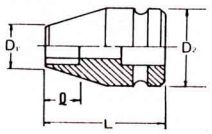


13365M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
10	15.8	19	8	80
11	17	19	8	80
12	18.3	19	9	80
13	19.5	22	9	80
14	20.8	22	11	80
15	22	22	11	80
16	23.3	22	11	80
17	24.5	22	12	80
19	27	22	13	80

The bevelled flats of the 6-point opening of the PATHFINDER® socket engage the nut almost immediately, thus speeding productivity as the power tool must not each time be started or be stopped, an advantage for all automatic assemblies.

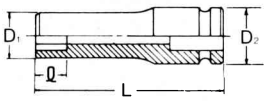
SOCKETS

13410M SURFACE DRIVE Sockets



13410M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
8	13.3	19	6	32	40
9	14.5	19	7	32	40
10	15.8	19	7	32	40
11	17	19	8	32	42
12	18.3	19	9	32	50
13	19.5	22	10	32	56
14	20.8	22	10	32	70
15	22	22	11	32	75

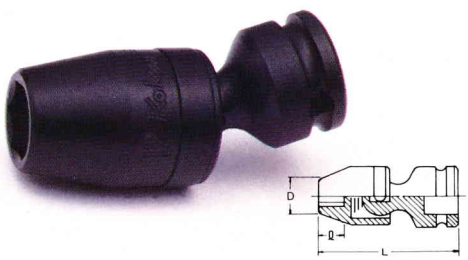
13310M SURFACE DRIVE Sockets



13310M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
8	13.3	19	8	80	90
9	14.5	19	9	80	90
10	15.8	19	10	80	97
11	17	19	11	80	110
12	18.3	19	12	80	105
13	19.5	22	13	80	135
14	20.8	22	14	80	145
15	22	22	15	80	160

UNIVERSAL SOCKETS

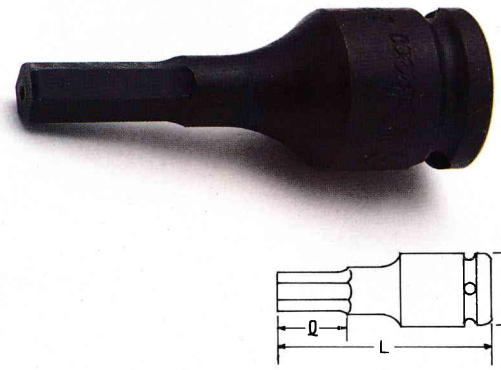
13440M/13440A



13440M (mm)	13440A (inch)	D (mm)	ℓ (mm)	L (mm)	(g)
10	3/8	15.8	5	57	115
11	7/16	17	6	57	115
12		18.3	6	57	115
13	1/2	19.5	6	57	115
14	9/16	20.8	7	59	120
15		22	7	59	120
16	5/8	23.3	8	59	120
17	11/16	24.5	8	59	120
18		25.8	9	61	126
19	3/4	27	10	61	130

HEX SOCKETS

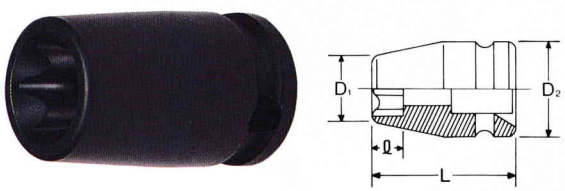
13012M-52



13012M-52 (mm)	D (mm)	ℓ (mm)	L (mm)	(g)
4	18	15.5	52	34.8
5	18	15.5	52	37.7
6	18	15.5	52	38.5
8	21	15.5	52	60
10	21	15.5	52	70
12	21	15.5	52	79

SOCKETS

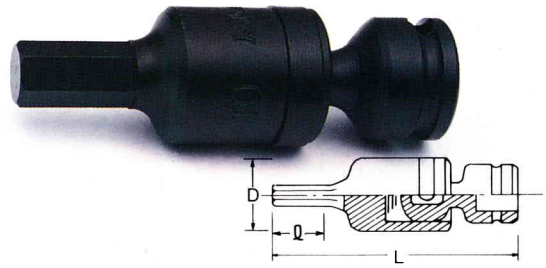
13425 Hex. Lobular Sockets



13425	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)
E 4	9.7	19	3.2	32
E 5	10.2	19	3.2	32
E 6	10.7	19	4.0	32
E 7	11.2	19	4.8	32
E 8	11.7	19	5.6	32
E10	12.2	19	6.4	32
E12	14.2	19	8.0	32
E14	17.2	19	8.8	32
E16	18.2	19	9.6	32

UNIVERSAL HEX SOCKETS

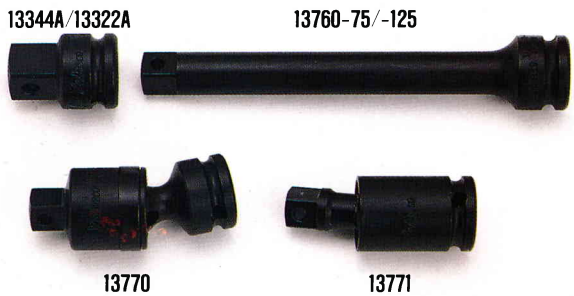
13430M Universal Hex Joint



13430M (mm)	D (mm)	ℓ (mm)	L (mm)	(g)
5	24	15	74	120
6	24	15	74	131
8	24	20	74	136
10	24	20	74	141

ACCESSORIES

13137 Bit Holder



13760-75/-125 Extension Bar

- 13760-75 L=75mm =95g
- 13760-125 L=125mm =114g

13770 Universal Joint =110g

13771 Universal Joint 7 facet L=54mm

13344A/13322A Adaptor

- 13344A 凹3/8" × 凸1/2" =53g
- 13322A 凹3/8" × 凸1/4" =25g

SOCKET SETS

13241M

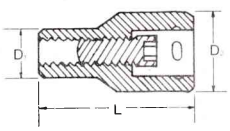
13241M : 11 Pieces Set	800 g
Sockets	13400M-9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19
METAL CASE : 245 × 30 × 35 mm	

13242M

13242M : 11 Pieces Set	1,140 g
Sockets	13400M-9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19
METAL CASE : 310 × 90 × 48 mm	

STUD BOLT SETTER

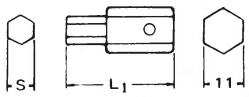
13103M



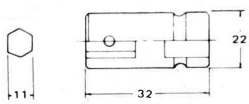
13103M (mm)		D_1 (mm)	D_2 (mm)	L (mm)	(g)
5	5mm X 0.8	14	19	33	46
6	6mm X 1	15	19	37	54
8	8mm X 1.25	16	19	41	58

HEX SOCKETS

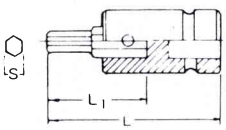
107-11



13105



13105-11



107-11 Hex Bits

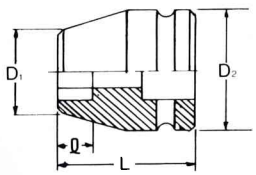
107-11 (mm)	S (mm)	L_1 (mm)	(g)
3	3	35	17
4	4	35	17
5	5	35	18
6	6	35	19
7	7	35	20
8	8	35	22
10	10	35	26
12	12	35	31
14	14	35	38
17	17	35	50
19	19	35	58

13105-11

13105-11 (mm)	S (mm)	L (mm)	(g)
3	3	54	87
4	4	54	87
5	5	54	88
6	6	54	89
7	7	54	90
8	8	54	92
10	10	54	96
12	12	54	101
14	14	54	108
17	17	54	120
19	19	54	128

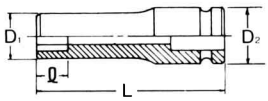
SOCKETS

14400M/14400A 6-point Sockets



14400M (mm)	14400A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
8	5/16	14.5	25	6	38	85
9		15.7	25	7	38	85
10	3/8	17	25	7	38	85
11	7/16	18.2	25	8	38	85
12		19.5	25	9	38	85
13	1/2	20.7	25	10	38	85
14	9/16	22	25	10	38	85
15		23.2	30	11	38	130
16	5/8	24.5	30	11	38	130
17	11/16	25.7	30	12	38	130
18		27	30	13	38	130
19	3/4	28.2	30	13	38	125
21	13/16	30.7	30	14	38	120
22	7/8	32	30	14	38	130
23		33.2	30	14	38	130
24	15/16	34.5	30	14	38	135
	1	35.7	30	14	38	135
26		37	30	14	38	160
27	1- 1/16	38.2	30	16	40	160
28		39.5	30	16	40	170
29	1- 1/8	40.7	30	17	42	190
30	1- 3/16	42	30	17	42	190
32	1- 1/4	44.5	30	18	42	190

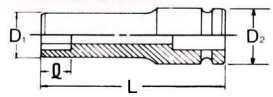
14300M/14300A 6-point Deep Sockets



14300M (mm)	14300A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
8	5/16	14.5	25	8	80	137
9		15.7	25	9	80	138
10	3/8	17	25	10	80	140
11	7/16	18.2	25	11	80	156
12		19.5	25	12	80	162
13	1/2	20.7	25	13	80	162
14	9/16	22	25	14	80	174
15		23.2	30	15	80	235
16	5/8	24.5	30	16	80	232
17	11/16	25.7	30	17	80	258
18		27	30	18	80	272
19	3/4	28.2	30	19	80	259
21	13/16	30.7	30	21	80	272
22	7/8	32	30	22	85	319
23		33.2	30	23	85	340
24	15/16	34.5	30	24	85	329
	1	35.7	30	25	85	345
26		37	30	26	85	400
27	1- 1/16	38.2	30	27	85	385
28		39.5	30	28	85	390
29	1- 1/8	40.7	30	29	85	416
30		42	30	30	85	457
32	1- 1/4	44.5	30	32	85	

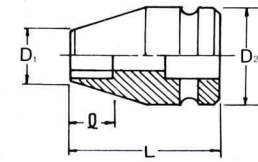
SOCKETS

14301M/14301A 6-point Extra Thin Walled Deep Sockets



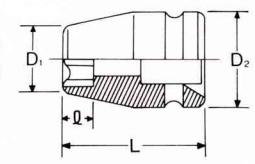
14301M (mm)	14301A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
10	3/8	15.5	25	10	80	137
11	7/16	16.7	25	11	80	145
12		18	25	12	80	
13	1/2	19.2	25	13	80	
14	9/16	20.5	25	14	80	158
15		21.7	30	15	80	
16	5/8	23	30	16	80	220
17	11/16	24.2	30	17	80	223
19	3/4	26.7	30	19	80	245
21	13/16	29.2	30	21	80	253
22	7/8	30.5	30	22	85	260
23		31.7	30	23	85	
24	15/16	33	30	24	85	277
26		35.5	30	26	85	
27	1 - 1/16	36.7	30	27	85	327

14405M/14405A 12-point Sockets



14405M (mm)	14405A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
8		14.5	25	6	38	85
9		15.7	25	7	38	85
10		17	25	7	38	85
11		18.2	25	8	38	84
12		19.5	25	9	38	84
13		20.7	25	10	38	84
14	9/16	22	25	10	38	84
15		23.2	30	11	38	130
16	5/8	24.5	30	11	38	127
17		25.7	30	12	38	128
19	3/4	28.2	30	13	38	125
21	13/16	30.7	30	14	38	170
22	7/8	32	30	14	38	178
23		33.2	30	14	38	132
24	15/16	34.5	30	14	38	133
26		37	30	14	38	147
27		38.2	30	16	40	157

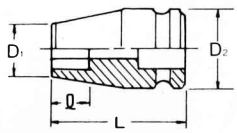
14425 Hex. Lobular Sockets



14425	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
E10	14.2	25	6.4	38
E12	15.2	25	8.0	38
E14	18.2	25	8.8	38
E16	19.2	25	9.6	38
E18	22.2	25	11.1	38
E20	24.2	30	12.7	38

SOCKETS

14410M SURFACE DRIVE Sockets

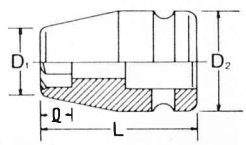


14410M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
10	17	25	7	38	100
11	18.2	25	8	38	103
12	19.5	25	9	38	110
13	20.7	25	10	38	113
14	22	25	10	38	115
15	23.2	30	11	38	120
16	24.5	30	11	38	120
17	25.7	30	12	38	126
19	28.2	30	13	38	124
22	32	30	14	38	130
24	34.5	30	14	38	134

14310M SURFACE DRIVE Sockets

14310M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
10	17	25	10	80	260
11	18.2	25	11	80	280
12	19.5	25	12	80	300
13	20.7	25	13	80	320
14	22	25	14	80	340
15	23.2	30	15	80	350
16	24.5	30	16	80	360
17	25.7	30	17	80	380
19	28.2	30	19	80	370
22	32	30	22	85	385
24	34.5	30	24	85	436

14465M PATHFINDER Sockets with Engagement Bevel



14465M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
10	17	25	8	38
11	18.2	25	8	38
12	19.5	25	9	38
13	20.7	25	9	38
14	22	25	11	38
15	23.2	30	11	38
16	24.5	30	11	38
17	25.7	30	12	38
19	28.2	30	13	38
20	29.5	30	14	38
22	32	30	15	38
24	34.5	30	15	38
26	37	30	15	38
27	38.2	30	16	40

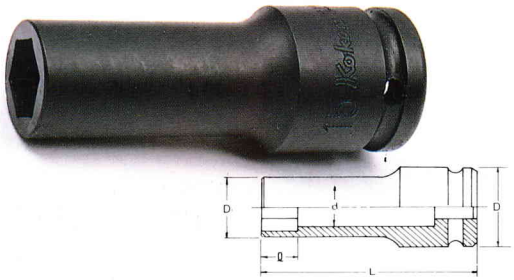
14365M PATHFINDER Sockets with Engagement Bevel

14365M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
10	17	25	8	80
11	18.2	25	8	80
12	19.5	25	9	80
13	20.7	25	9	80
14	22	25	11	80
15	23.2	30	11	80
16	24.5	30	11	80
17	25.7	30	12	80
19	28.2	30	13	80
20	29.5	30	14	80
22	32	30	15	85
24	34.5	30	15	85
26	37	30	15	85
27	38.2	30	16	85

The bevelled flats of the 6-point opening of the PATHFINDER® socket engage the nut almost immediately, thus speeding productivity as the power tool must not each time be started or be stopped, an advantage for all automatic assemblies.

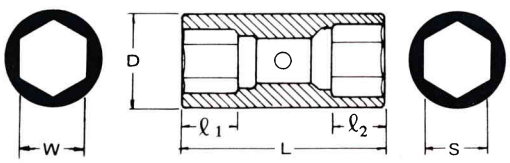
SOCKETS

14300M-V Special Sockets



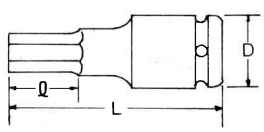
14300M-V (mm)	d (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
15	14.5	23	30	30	82.5	220
17	16.5	26	30	30	82.5	214

14118M/14118A Wheel Nut Sockets



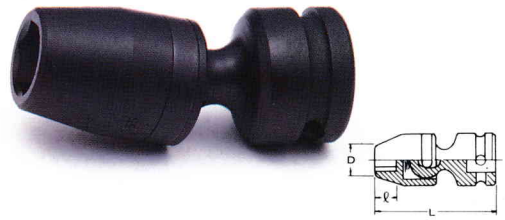
14118M (mm) W×S	14118A (inch) W×S	D (mm)	ℓ 1 (mm)	ℓ 2 (mm)	L (mm)
17×19		28	15.5	12.5	48
19×21		30	17.5	13	57
	3/4X13/16	30	17.5	13	57
19×22		31	17.5	15	57
21×22		31	17.5	15	57

14012M-60 Hex Sockets



14012M-60 (mm)	D (mm)	ℓ (mm)	L (mm)	(g)
4	24	15.5	60	68
5	24	15.5	60	71
6	24	15.5	60	73.6
8	24	15.5	60	84
10	24	15.5	60	91
12	24	15.5	60	103
14	25	15.5	60	127
17	25	15.5	60	140
19	25	15.5	60	168

14440M/14440A Universal Sockets



14440M (mm)	14440A (inch)	D (mm)	ℓ (mm)	L (mm)	(g)
12		19.5	6	67.5	202
13	1/2	20.7	6	67.5	210
14	9/16	22	7	69.5	210
15		23.2	7	69.5	210
16	5/8	24.5	8	69.5	206
17	11/16	25.7	8	69.5	220
18		27	9	69.5	
19	3/4	28.2	10	71.5	220
21	13/16	30.7	11	71.5	
22	7/8	32	13	71.5	234
23		33.2	13	71.5	
24	15/16	34.5	13	71.5	258

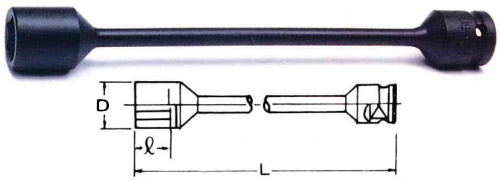
14103M Stud Bolt Setters

14103M (mm)		D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
6	6mm X 1	20	25	6	43
8	8mm X 1.25	22	25	9	43
10	10mm X 1.25	25	25	13	50
12	12mm X 1.75	25	25	13.5	50

TORSION BARS

For tightening only

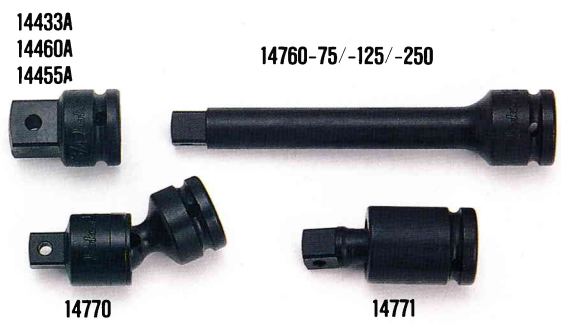
○ 14101M



14101M (mm)	D (mm)	ℓ (mm)	L (mm)	⚖ (g)
17X 60Nm	26	18.5	216	227
17X 95Nm	26	18.5	214	256
17X120Nm	26	18.5	213	284
19X 60Nm	28	20.5	219	237
19X 90Nm	28	20.5	223	275
19X120Nm	28	20.5	216	297
19X170Nm	28	20.5	210	332
21X100Nm	30	22.5	214	288

As the torque could vary with the type and the condition of the impact wrench, we strongly recommend the control with a torque wrench.

ACCESSORIES



14760-75/-125/-250 Extension Bar

- ·1476-75 L=75mm ⚖=188g
- ·14760-125 L=125mm ⚖=275g
- ·14760-250 L=250mm ⚖=480g

14770 Universal Joint ⚖=210g

14771 Universal Joint 7facet L=68mm

14433A/14466A/14455A Adaptor

- ·14433A □1/2"×□3/8" ⚖=68g
- ·14466A □1/2"×□3/4" ⚖=146g
- ·14455A □1/2"×□5/8" ⚖=135g

SOCKET SETS

14240M

14240M : 98 Pcs. set ⚖= 13,600 g

Sockets

14400M

10 mm : 8 Pcs.	14 mm : 8 Pcs.	21 mm : 7 Pcs.
11 mm : 8 Pcs.	15 mm : 7 Pcs.	22 mm : 6 Pcs.
12 mm : 8 Pcs.	16 mm : 7 Pcs.	23 mm : 6 Pcs.
13 mm : 8 Pcs.	17 mm : 7 Pcs.	24 mm : 6 Pcs.
	19 mm : 7 Pcs.	27 mm : 5 Pcs.

METAL CASE : 510 × 150 × 230 mm

14241M

14241M : 13 Pieces Set ⚖= 2,000 g

Sockets	14400M-10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 24, 27

METAL CASE : 196 × 101 × 41 mm

14242M

14242M : 12 Pieces Set ⚖= 1,890 g

Sockets	14400M-10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 27

METAL CASE : 310 × 90 × 48 mm

TORSION EXTENSION BAR

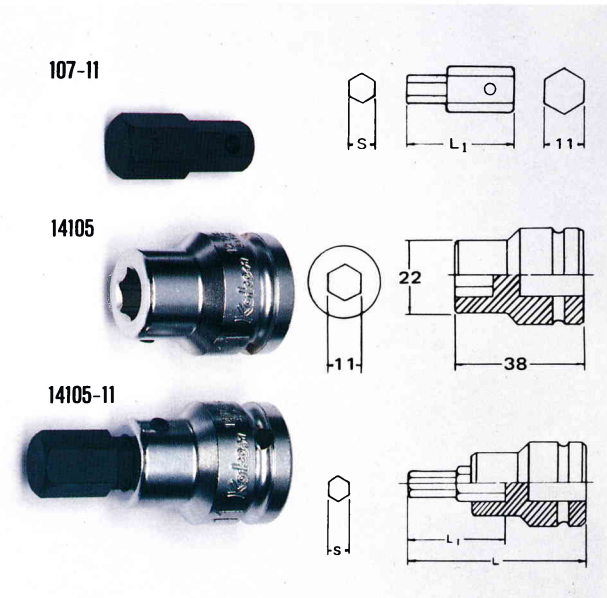
For Tightening only

14112 Torsion Extension Bars

14112	SIZE	L (mm)
	90 Nm	208
	95 Nm	202
	100 Nm	196
	120 Nm	201
	170 Nm	194

HEX SOCKETS

107-11/ 14105/ 14105-11

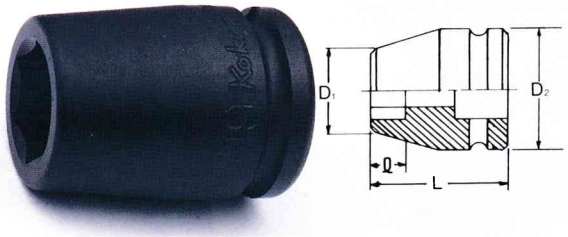


107-11 (mm)	S (mm)	L1 (mm)	(g)
5	5	35	16
6	6	35	18
7	7	35	19
8	8	35	20
10	10	35	26
12	12	35	31
14	14	35	38
17	17	35	50
19	19	35	56

14105-11 (mm)	S (mm)	L (mm)	(g)
5	5	61	142
6	6	61	144
7	7	61	145
8	8	61	146
10	10	61	152
12	12	61	157
14	14	61	164
17	17	61	176
19	19	61	182

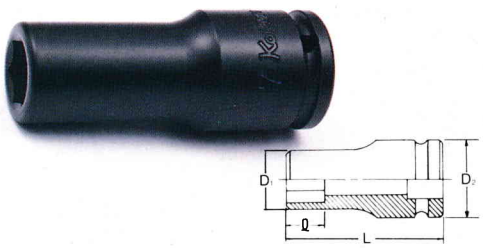
SOCKETS

15400M 6-point Sockets



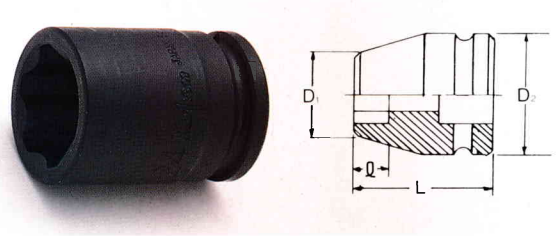
15400M (mm)	15400A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
14	9/16	24	35	10	47	176
17	11/16	27.8	35	12	47	175
19	3/4	30.3	35	13	47	174
21	13/16	32.8	35	15	47	186
22	7/8	34	35	15	47	193
23		35.3	35	16	47	195
24	15/16	36.5	35	16	50	196
26		39	35	16	50	216
27	1- 1/16	40.3	35	16	50	222
28		41.5	35	16	50	230
30	1- 3/16	44	35	18	50	250
32	1- 1/4	46.5	35	19	54	287

15300M 6-point Deep Sockets



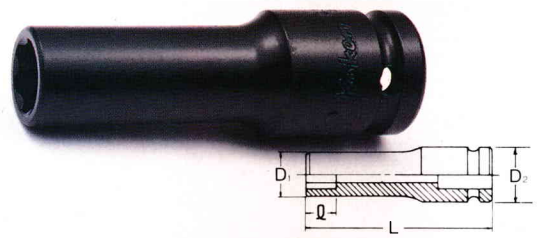
15300M (mm)	15300A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
14	9/16	24	35	14	90	350
15		25.3	35	15	90	360
16	5/8	26.5	35	16	90	370
17	11/16	27.8	35	17	90	387
18		29	35	18	90	390
19	3/4	30.3	35	19	90	387
21	13/16	32.8	35	21	90	412
22	7/8	34	35	22	90	416
23		35.3	35	23	90	420
24	15/16	36.5	35	24	90	430
26		39	35	26	90	473
27	1- 1/16	40.3	35	27	90	492
28		41.5	35	28	90	501
29	1- 1/8	42.8	35	29	90	520
30	1- 3/16	44	35	30	90	535
32	1- 1/4	46.5	35	32	90	620

15410M SURFACE DRIVE Sockets



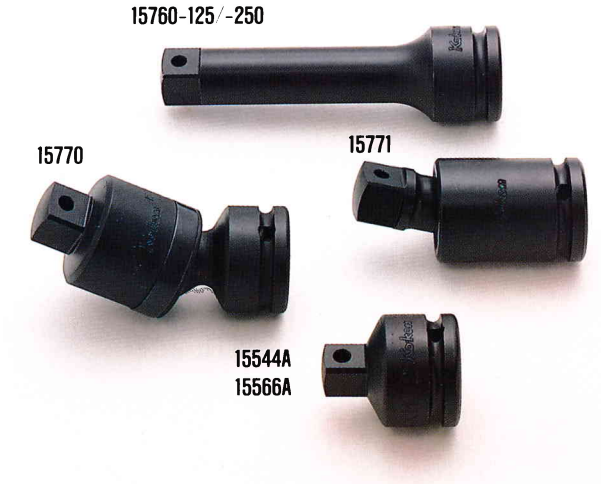
15410M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
14	24	35	10	47
17	27.8	35	12	47
19	30.3	35	13	47
21	32.8	35	15	47
22	34	35	15	47
23	35.3	35	16	47
24	36.5	35	16	50
26	39	35	16	50
27	40.3	35	16	50
28	41.5	35	16	50
30	44	35	18	50
32	46.5	35	18	54

15310M SURFACE DRIVE Sockets



15310M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
14	24	35	14	90
17	27.8	35	17	90
19	30.3	35	19	90
21	32.8	35	21	90
22	34	35	22	90
23	35.3	35	23	90
24	36.5	35	24	90
26	39	35	26	90
27	40.3	35	27	90
28	41.5	35	28	90
30	44	35	30	90
32	46.5	35	32	90

ACCESSORIES



15760-125/-250 Extension Bar

- 15760-125 L=125mm =382g
- 15760-250 L=250mm =740g

15770 Universal Joint =410g

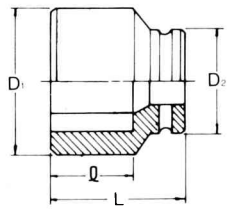
15771 Universal Joint 7facet L=80mm

15544A/15566A Adaptor

- 15544A □5/8" × □1/2" =170g
- 15566A □5/8" × □3/4" =200g

SOCKETS

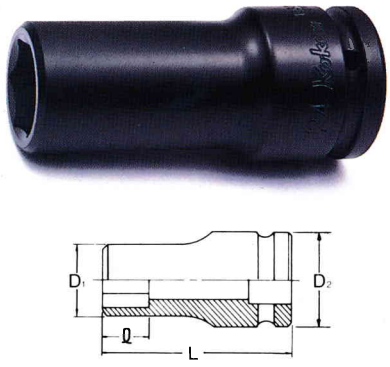
16400M/16400A 6-point Sockets



16400M (mm)	16400A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	⚖ (g)
17	11/16	30	44	12	50	355
18		31.3	44	13	50	372
19	3/4	32.5	44	13	50	360
20		33.8	44	14	50	375
21	13/16	35	44	15	50	374
22	7/8	36.3	44	15	50	373
23		37.5	44	16	50	373
24	15/16	38.8	44	16	50	370
25	1	40	44	16	50	374
26		41.3	44	16	50	378
27	1- 1/16	42.5	44	16	50	375
28		43.8	44	16	50	383
29	1- 1/8	45	44	18	53	412
30	1- 3/16	46.3	44	18	53	410
31		47.5	44	18	53	426
32	1- 1/4	48.8	44	19	53	428
33		50	44	20	55	470
34	1- 5/16	51.3	44	20	55	490
35	1- 3/8	52.5	44	20	55	494
36		53.8	44	20	55	498
	1- 7/16	55	44	20	55	526
38	1- 1/2	56.3	44	20	57	558
	1- 9/16	58.8	44	20	57	598
41	1- 5/8	60	44	22	57	572
42		61.3	44	22	57	617
	1-11/16	62.5	44	23	62	720
	1- 3/4	65	44	23	62	757
46	1-13/16	66.3	44	23	62	755
	1- 7/8	68.8	44	23	62	805
	1-15/16	70	44	23	62	
50		71.3	44	30	62	790
	2	72.5	44	30	62	848
	2- 1/16	75	44	29	62	870
54	2- 1/8	76.3	44	29	62	910
55	2- 3/16	77.5	44	29	62	990
	2- 1/4	80	44	32	65	1032
58	2- 5/16	81.3	44	31	65	
60	2- 3/8	83.3	44	31	65	1050

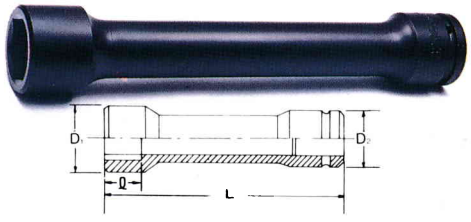
SOCKETS

16301M Extra Thin Walled Sockets for Wheel Nuts



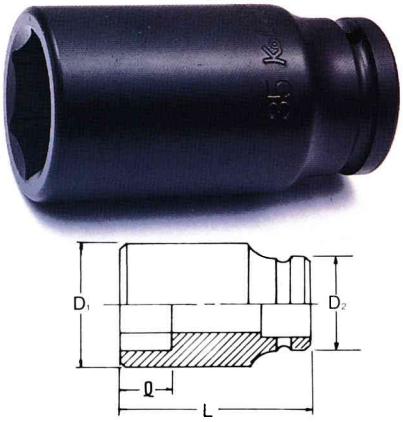
16301M (mm)	16301A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
17	11/16	28	44	17	100	555
19	3/4	30.5	44	19	100	580
21	13/16	33	44	21	100	600
22	7/8	34.3	44	22	100	620
23		35.5	44	23	100	620
24	15/16	36.8	44	24	100	640
27	1- 1/16	40.5	44	27	100	690
	1- 1/8	43	44	29	100	685
30	1- 3/16	44.3	44	30	100	720
32	1- 1/4	46.8	44	32	100	810
33		48	44	33	100	800
35	1- 3/8	50.5	44	35	100	775
36		51.8	44	36	100	830
38	1- 1/2	54.3	44	38	100	812
41		58	44	38	100	932

16102M Extra Long Impact Sockets for Wheel Nuts



16102M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
24	38.8	44	24	270	1034
27	42.5	44	27	270	1088
30	46.3	44	30	270	1144
32	48.8	44	32	270	1157
33	50	44	32	270	1200
36	53.8	44	32	270	1250

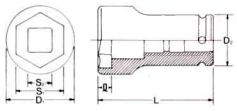
16300M/16300A 6-point Deep Sockets



16300M (mm)	16300A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
19	3/4	32.5	44	19	100	655
20		33.8	44	20	100	
21	13/16	35	44	21	100	700
22	7/8	36.3	44	22	100	700
23		37.5	44	23	100	720
24	15/16	38.8	44	24	100	705
25	1	40	44	25	100	715
26		41.3	44	26	100	760
27	1- 1/16	42.5	44	27	100	765
28		43.8	44	28	100	800
29	1- 1/8	45	44	29	100	835
30	1- 3/16	46.3	44	30	100	840
31		47.5	44	31	100	815
32	1- 1/4	48.8	44	32	100	875
33		50	44	33	100	920
34	1- 5/16	51.3	44	34	100	950
35	1- 3/8	52.5	44	35	100	980
36		53.8	44	36	100	960
37	1- 7/16	55	44	37	100	
38	1- 1/2	56.3	44	38	100	990
	1- 9/16	58.8	44	38	100	1060
41	1- 5/8	60	44	38	100	1120
42		61.3	44	38	100	1153
	1-11/16	62.5	44	38	100	1200
	1- 3/4	65	44	38	100	1284
46	1-13/16	66.3	44	38	100	1305
	1- 7/8	68.8	44	38	100	1368
50		71.3	44	61	100	1230
	2	72.5	44	60	100	

SOCKETS

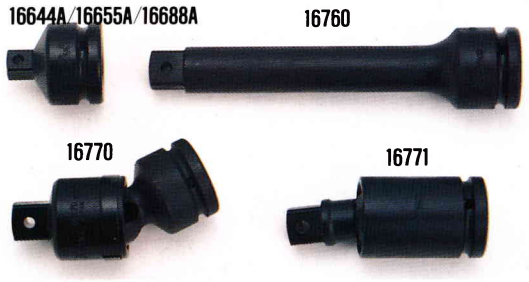
16316M/16316A Rear Wheel Nut Sockets



16316M $S_1 \times S_2$ (mm)	16316A $S_1 \times S_2$ (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
35×17		52	44	10	90
38×20		56	44	13	100
	1-1/2×13/16	56	44	13	100
41×19		59	44	12	100
41×21		59	44	12	100

※ *35 × 17: Daihatsu Delta 2 ~ 3.5 ton, Nissan Atlas 2 ~ 3 ton, Mazda Titan 1.5 ~ 2 ton, Isuzu Elf 2 ~ 3.5 ton, Hino Ranger 2 ~ 3.5 ton,*
38 × 20: Mitsubishi Canter 2 ~ 3.5 ton
41 × 19: Mazda Titan 3 ~ 4 ton
41 × 21: Fuso, Isuzu, Nissan, Hino: 4 ton and more bigger

ACCESSORIES



16644A/16655A/16688A Adaptor

- 16644A 凹3/4" × 凸1/2" ⚖ =175 g
- 16655A 凹3/4" × 凸5/8" ⚖ =336 g
- 16688A 凹3/4" × 凸1" ⚖ =435 g

16760-175/-250/-330 Extension Bar

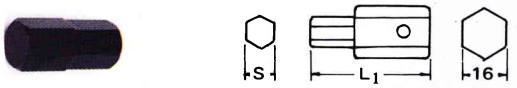
- 16760-175 L=175mm ⚖ =870g
- 16760-250 L=250mm ⚖ =1,150g
- 16760-330 L=330mm ⚖ =1,460g

16770 Universal Joint ⚖ =720 g

16771 Universal Joint 7facet

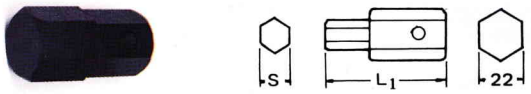
HEX SOCKETS

107-16



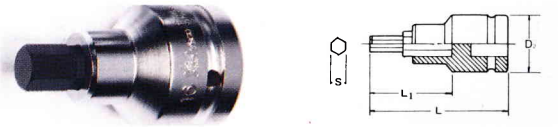
107-16 (mm)	S (mm)	L_1 (mm)	⚖ (g)
10	10	40	46
12	12	40	52
14	14	40	60
17	17	40	73
19	19	40	
22	22	40	97

107-22



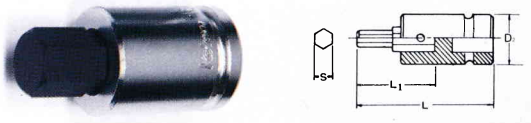
107-22 (mm)	S (mm)	L_1 (mm)	⚖ (g)
19	19	50	140
22	22	50	162
24	24	50	176
27	27	50	
32	32	50	243

16106-16



16106-16 (mm)	S (mm)	D (mm)	L (mm)	⚖ (g)
10	10	32	76	416
12	12	32	76	422
14	14	32	76	430
17	17	32	76	443
19	19	32	76	
22	22	32	76	473

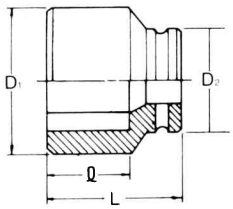
16107-22



16107-22 (mm)	S (mm)	D (mm)	L (mm)	⚖ (g)
19	19	44	88	670
22	22	44	88	692
24	24	44	88	706
27	27	44	88	
32	32	44	88	783

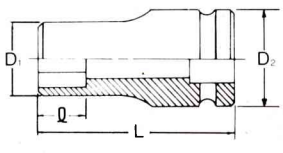
SOCKETS

18400M/18400A 6-point Sockets



18400M (mm)	18400A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
21	13/16	37.8	54	15	57	605
22	7/8	39	54	15	57	620
23		40.3	54	16	57	615
24	15/16	41.5	54	16	57	627
25	1	42.8	54	16	57	620
26		44	54	16	57	640
27	1- 1/16	45.3	54	16	57	627
28		46.5	54	16	57	640
29	1- 1/8	47.8	54	18	57	657
30	1- 3/16	49	54	21	62	657
31		50.3	54	21	62	687
32	1- 1/4	51.5	54	21	62	685
33		52.8	54	21	62	685
34	1- 5/16	54	54	21	62	690
35	1- 3/8	55.3	54	21	62	710
36		56.5	54	21	62	712
	1- 7/16	57.8	54	21	62	735
38	1- 1/2	59	54	25	66	720
40	1- 9/16	61.5	54	25	66	850
41	1- 5/8	62.8	54	25	66	850
42		64	54	25	66	905
	1-11/16	65.3	54	27	68	977
45	1- 3/4	67.8	54	27	68	963
46	1-13/16	69	54	29	70	1010
	1- 7/8	71.5	54	35	70	990
	1-15/16	72.8	54	35	70	1022
50		74	54	35	70	1065
	2	75.3	54	35	70	1060
52	2- 1/16	76.5	54	40	75	1185
	2- 1/8	79	54	40	75	
55	2- 3/16	80.3	54	39	75	1260
56		81.5	54	39	75	1277
	2- 1/4	82.8	54	39	75	1337
58	2- 5/16	84	54	39	75	1340
60	2- 3/8	86.5	54	39	75	1400
	2- 7/16	89	54	38	75	1410
63		90.3	54	38	75	1383
	2- 1/2	91.5	54	38	75	1498
65	2- 9/16	92.8	54	38	75	1630
	2- 5/8	95.3	54	38	75	1580
68	2-11/16	96.5	54	37	75	1583
70	2- 3/4	99	54	37	75	1625
	2-13/16	101.5	54	37	75	1615
	2- 7/8	102.8	54	40	80	1917
75	2-15/16	105.3	54	39	80	2000
	3	106.5	54	39	80	1895
	3- 1/16	109	54	44	85	
80	3- 1/8	111.5	54	44	85	2130
	3- 1/4	115.3	54	47	90	
85		117.8	54	46	90	
	3- 3/8	119	54	46	90	2440
90	3- 1/2	124	54	51	95	3000

18301M/18301A Extra Thin Walled Sockets for Wheel Nuts



18301M (mm)	18301A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
22	7/8	36	54	22	108	950
24	15/16	38.5	54	24	108	950
27	1- 1/16	42.3	54	27	108	980
30	1- 3/16	46	54	30	108	1070
32	1- 1/4	48.5	54	32	108	1100
33		49.8	54	33	108	1100
34	1- 5/16	51	54	34	108	1100
35	1- 3/8	52.3	54	35	108	1094
36		53.5	54	36	108	1140
38	1- 1/2	56	54	38	108	1230
41		59.8	54	38	108	1260

SOCKETS

18300M/18300A 6-point Deep Sockets

18300M (mm)	18300A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
22	7/8	39	54	22	108	1010
23		40.3	54	23	108	1063
24	15/16	41.5	54	24	108	1060
25	1	42.8	54	25	108	1085
26		44	54	26	108	1133
27	1- 1/16	45.3	54	27	108	1125
28		46.5	54	28	108	1140
29	1- 1/8	47.8	54	29	108	1120
30	1- 3/16	49	54	30	108	1179
31		50.3	54	31	108	1125
32	1- 1/4	51.5	54	32	108	1200
33		52.8	54	33	108	1200
34	1- 5/16	54	54	34	108	1280
35	1- 3/8	55.3	54	35	108	1300
36		56.5	54	36	108	1280
	1- 7/16	57.8	54	37	108	1320
38	1- 1/2	59	54	38	108	1423
	1- 9/16	61.5	54	38	108	1415
41	1- 5/8	62.8	54	80	108	1450
42		64	54	80	108	1550
	1-11/16	65.3	54	80	108	
	1- 3/4	67.8	54	80	108	1660
46	1-13/16	69	54	80	108	1680
	1- 7/8	71.5	54	67.3	108	1500
	1-15/16	72.8	54	66.7	108	1570
50		74	54	66.1	108	1650
	2	75.3	54	65.5	108	1605
52	2- 1/16	76.5	54	64.9	108	1770
	2- 1/8	79	54	63.8	108	1812
55	2- 3/16	80.3	54	63.2	108	1855
	2- 1/4	82.8	54	62	108	1916
	2- 5/16	84	54	61.4	108	
60	2- 3/8	86.5	54	60.3	108	2047
	2- 7/16	89	54	59.1	108	
	2- 1/2	91.5	54	57.9	108	2250
65	2- 9/16	92.8	54	57.5	108	
	2- 5/8	95.3	54	56.2	108	
70	2- 3/4	99	54	54.6	108	2440
	2- 7/8	102.8	54	52.8	108	
75		105.3	54	51.6	108	2640
	3	106.5	54	51.0	108	
	3- 1/16	109	54	49.9	108	3020
80	3- 1/8	111.5	54	48.7	108	2880

TORSION BAR

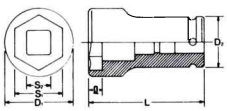
For tightening only

18101M

18101M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
27-350Nm	45.3	54	27	300	1401
27-450Nm	45.3	54	30	300	1579
30-500Nm	49	54	32	300	1563
32-600Nm	51.5	54	32	300	1602
33-600Nm	52.8	54	32	300	1638

SOCKETS

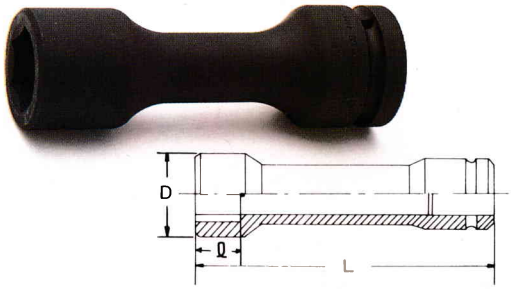
18316M/18316A Rear Wheel Nut Sockets



18316M S1×S2 (mm)	18316A S1×S2 (inch)	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)
35×17		55	54	10	108
38×20		59	54	13	108
	1-1/2×13/16	59	54	13	108
41×19		62	54	12	108
41×21		62	54	12	108

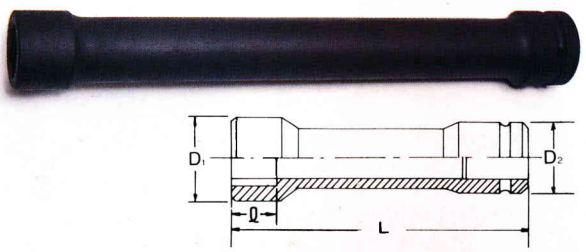
※ *35 × 17: Daihatsu Delta 2 ~ 3.5 ton,*
Nissan Atlas 2 ~ 3 ton,
Mazda Titan 1.5 ~ 2 ton,
Isuzu Elf 2 ~ 3.5 ton,
Hino Ranger 2 ~ 3.5 ton,
38 × 20: Mitsubishi Canter 2 ~ 3.5 ton
41 × 19: Mazda Titan 3 ~ 4 ton
41 × 21: Fuso, Isuzu, Nissan, Hino: 4 ton and more bigger

18104M Special Sockets for Spring Clamps.



18104M (mm)	D (mm)	ℓ (mm)	L (mm)	(g)
24	41.5	24	170	1327
27	45.3	27	170	1375
28	46.5	28	170	1390
30	49	30	170	1407
32	51.5	32	170	1537
33	52.8	33	170	1590
34	54	34	170	1670
36	56.5	36	170	1800

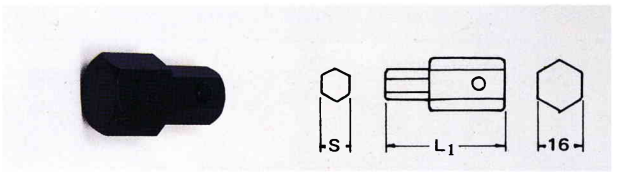
18102M Extra Long Impact Sockets for Wheel Nuts



18102M (mm)	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)	(g)
27	45.3	54	27	270	1980
30	49	54	30	270	1974
32	51.5	54	32	270	2030
33	52.8	54	32	270	2030
36	56.5	54	32	270	2150

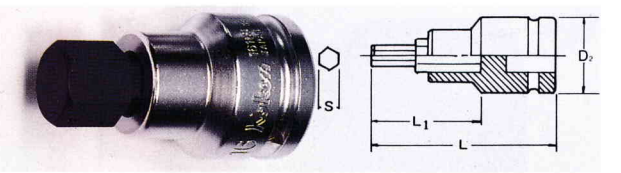
HEX SOCKETS

107-16



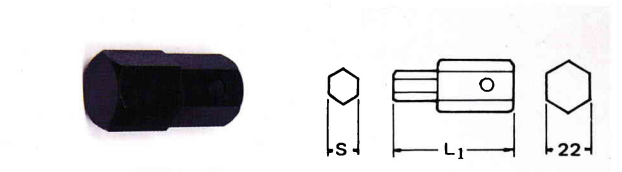
107-16 (mm)	S (mm)	L1 (mm)	(g)
10	10	40	46
12	12	40	52
14	14	40	60
17	17	40	73
19	19	40	
22	22	40	97

18106-16



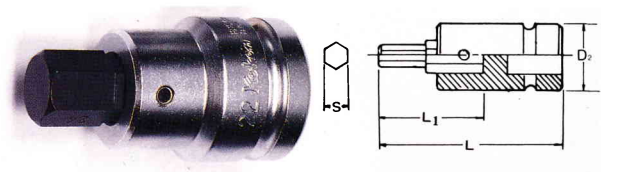
18106-16 (mm)	S (mm)	D (mm)	L (mm)	(g)
10	10	54	92	686
12	12	54	92	692
14	14	54	92	700
17	17	54	92	713
19	19	54	92	
22	22	54	92	781

107-22



107-22 (mm)	S (mm)	L1 (mm)	(g)
19	19	50	140
22	22	50	162
24	24	50	176
27	27	50	
32	32	50	243

18107-22

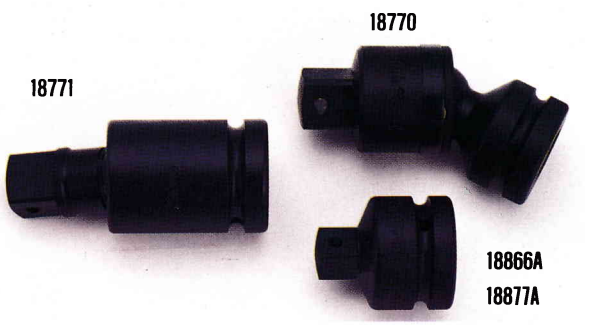


18107-22 (mm)	S (mm)	D (mm)	L (mm)	(g)
19	19	54	98	910
22	22	54	98	932
24	24	54	98	946
27	27	54	98	
32	32	54	98	1029

ACCESSORIES

18760-175/-250/-330 Extension Bar

- 18760-175 L=175mm
- 18760-250 L=250mm
- 18760-330 L=330mm



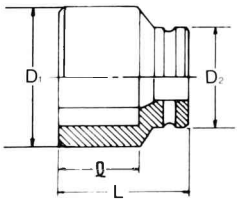
18770 Unversal Joint

18771 Unversal Joint 7facet

18866A/18877A Adaptor
凹1" × 凸3/4"
凹1" × 凸1-1/2"

SOCKETS

17400M/17400A 6-point Sockets



17400M (mm)	17400A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
41	1- 5/8	68	86	22	80	2346
42		70	86	22	80	2330
	1-11/16	71	86	22	80	2300
	1- 3/4	73	86	22	80	2290
46	1-13/16	74	86	26	84	2360
	1- 7/8	77	86	26	84	
50	1-15/16	79	86	27	84	2400
	2	80	86	27	84	2420
52	2- 1/16	82	86	38	84	2340
54	2- 1/8	84	86	38	84	2340
55	2- 3/16	85	86	44	90	2450
	2- 1/4	87	86	43	90	2460
58	2- 5/16	88	86	44	90	2510
60	2- 3/8	91	86	43	90	2640
	2- 7/16	93	86	47	95	2860
	2- 1/2	96	86	47	95	3000
65	2- 9/16	97	86	48	95	3050
	2- 5/8	100	86	51	100	
	2-11/16	101	86	51	100	
70	2- 3/4	103	86	52	100	3350
	2-13/16	105	86	55	105	3670
	2- 7/8	106	86	55	105	3610
75	2-15/16	108	86	56	105	3700
	3	108	86	55	105	
80	3- 1/3	115	86	60	110	4240
	3- 1/4	118	86	59	110	
85		122	86	60	110	4550
	3- 3/8	123	86	60	110	4570
90	3- 1/2	128	86	60	112	4840
	3- 5/8	132	86	52	112	
95	3- 3/4	135	86	52	112	5590
100	3- 7/8	140	86	53	115	
105	4	146	86	57	120	6460
	4- 1/8	146	86	57	120	
110	4- 1/4	153	86	60	124	
115	4- 1/2	160	86	62	128	
120	4- 5/8	166	86	64	132	8600
	4- 3/4	168	86	64	132	
125	4- 7/8	173	86	67	136	9660
130	5	180	86	69	140	10700
135	5- 1/4	186	86	73	145	
140		190	86	76	150	12000
150		200	86	83	150	13620
	6	205	86	88	150	
	6- 1/2	225	86	94	160	

17300M/17300A 6-point Deep Sockets

17300M (mm)	17300A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
41	1- 5/8	68	86	27	115
42		70	86	27	115
	1-11/16	71	86	27	115
	1- 3/4	72	86	27	115
46	1-13/16	74	86	28	125
	1- 7/8	77	86	28	125
50		79	86	30	135
	2	80	86	30	135
54	2- 1/8	84	86	30	135
55		85	86	33	135
	2- 1/4	87	86	33	135
60	2- 3/8	91	86	35	135
	2- 1/2	95	86	35	135
65	2- 9/16	97	86	38	145
	2-11/16	101	86	38	145
70	2- 3/4	103	86	40	145
	2-13/16	105	86	40	145
75	2-15/16	108	86	42	155
	3	110	86	42	155
80		115	86	46	165
85		122	86	49	165
90		128	86	52	175
95		135	86	55	175
100		140	86	58	185
105		146	86	62	195
110		153	86	65	195
115		160	86	68	195
120		166	86	72	205
125		173	86	74	205
130		180	86	76	205

ACCESSORIES

17760-175/-250/-330 Extension Bar

- 17760-175 L=175mm
- 17760-250 L=250mm
- 17760-330 L=330mm

17770 Universal Joint

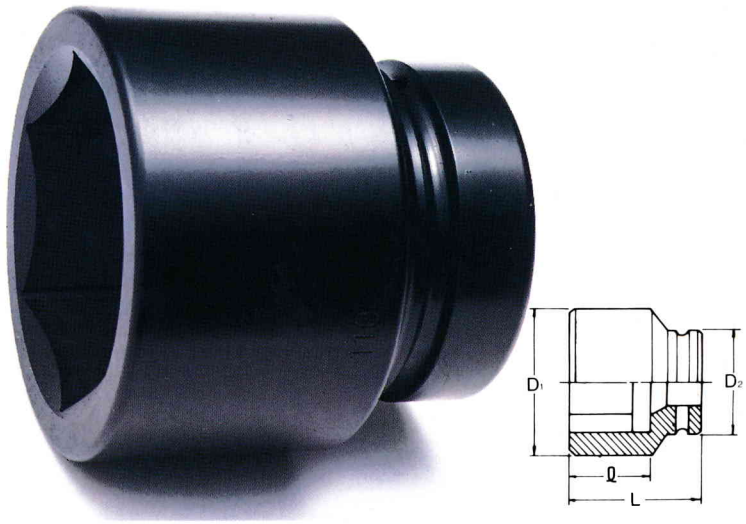
17788A/17799A Adaptor

- 17788A 凹1-1/2” × 凸1”
- 17799A 凹1-1/2” × 凸2-1/2”

SOCKETS

19400M
19400A

6-point Sockets

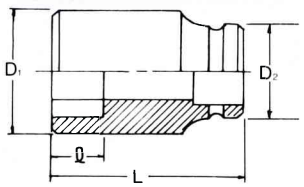


19400M (mm)	19400A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
60	2- 3/8	100	127	45	125
	2- 7/16	102	127	46	125
	2- 1/2	103	127	47	125
65	2- 9/16	105	127	48	125
	2- 5/8	107	127	49	125
	2-11/16	108	127	50	125
70	2- 3/4	110	127	51	125
	2-13/16	113	127	52	125
	2- 7/8	115	127	53	125
75	2-15/16	118	127	54	125
	3	120	127	55	125
80	3- 1/8	124	127	57	125
	3- 1/4	125	127	59	125
85	3- 3/8	127	127	61	132
90		135	127	64	132
	3- 5/8	138	140	64	132
95	3- 3/4	140	127	71	140
	3- 7/8	143	127	70	140
100	4	146	127	71	140
	4- 1/8	155	127	70	142
105		155	127	74	146
110	4- 1/4	160	127	76	155
115	4- 1/2	167	127	78	158
120	4- 5/8	175	127	79	160
125	4- 7/8	180	127	82	165

19400M (mm)	19400A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
	5	183	127	81	165
130		185	127	85	169
135	5- 1/4	190	127	89	175
	5- 3/8	198	127	94	180
140	5- 1/2	200	127	93	180
	5- 5/8	203	127	94	182
145		205	127	95	183
	5- 3/4	207	127	103	192
150		210	127	97	192
	6	217	127	100	196
	6- 1/8	223	127	103	200
160		225	127	102	200
165		230	127	105	204
	6- 5/8	233	127	105	205
170		235	127	106	207
175		240	127	109	211
	7	248	127	110	213
180		250	127	110	214
185		255	127	113	218
190		265	127	113	220
200		275	127	116	225
210		285	127	123	235
215		290	127	126	240
225		305	127	133	250
235		315	127	140	260

SOCKETS

19300M 6-point Deep Sockets



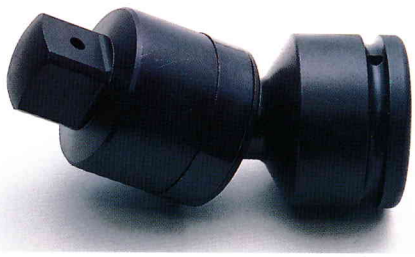
19300M (mm)	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)
75	118	127	42	190
80	124	127	46	190
85	127	127	49	195
90	135	127	52	205
95	140	127	55	210
100	146	127	58	215
105	155	127	62	220
110	160	127	65	225
115	167	127	68	230
120	175	127	72	235
125	180	127	74	238
130	185	127	76	243
135	190	127	80	248
140	200	127	82	248
145	205	127	84	248
150	210	127	88	255
155	215	127	92	255
160	225	127	95	260
165	230	127	98	260
170	235	127	100	265
175	240	127	102	270

ACCESSORIES

19977A Adaptor

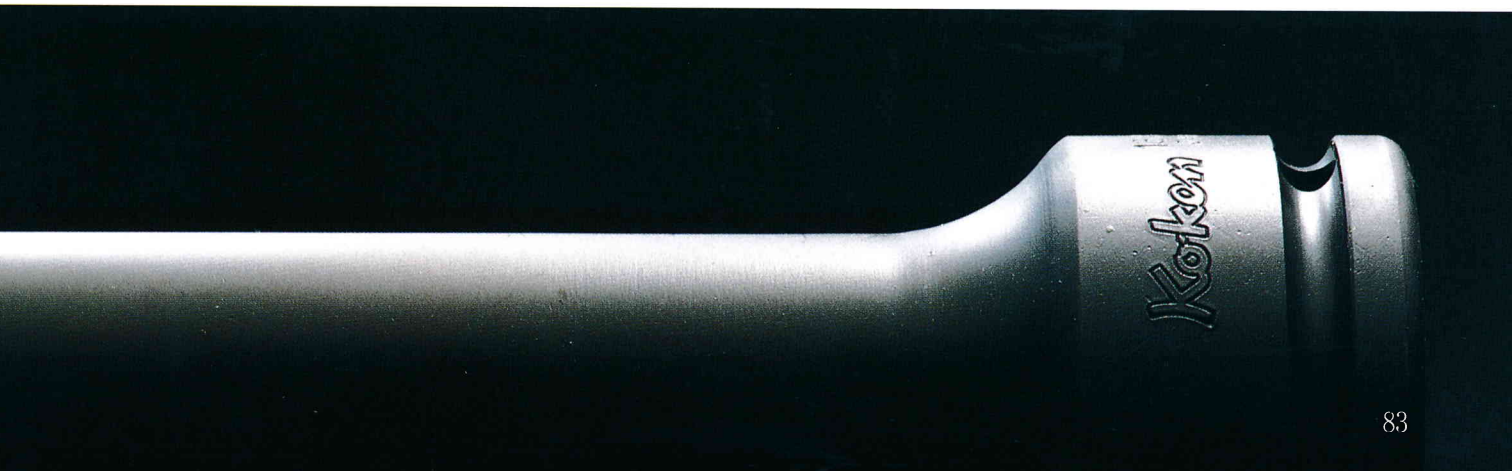
凹2-1/2” × 凸1-1/2”

19770 Universal Joint



19760-250/-500 Extension Bar

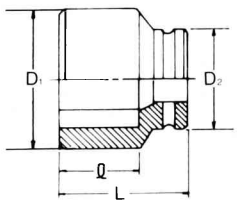
- 19760-250 L=250mm
- 19760-500 L=500mm



3-1/2" IMPACT

SOCKETS

⬡ 10400M/10400A 6-point Sockets



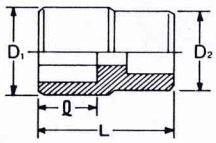
10400M (mm)	10400A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
105	4-1/8	165	175	86	176
	4-1/4	168	175	87	178
110		170	175	88	179
	4-3/8	172	175	88	180
	4-1/2	175	175	89	182
115		175	175	90	183
	4-5/8	178	175	90	183
120	4-3/4	180	175	91	185
125	4-7/8	188	175	94	190
	5	188	175	95	191
130	5-1/8	193	175	97	194
	5-1/4	197	175	100	198
135		200	175	101	199
	5-3/8	201	175	102	202
140	5-1/2	205	175	105	205
145		210	175	106	207
	5-5/8	208	175	106	208
	5-3/4	212	175	108	210
150	5-7/8	215	175	109	212
	6	219	175	110	214
	6-1/8	223	175	112	216
	6-1/4	227	175	114	218
160		228	175	114	220
	6-3/8	231	175	115	221
165	6-1/2	235	175	117	224

10400M (mm)	10400A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
	6-5/8	238	175	118	226
170		240	175	118	227
	6-3/4	241	175	119	228
	6-7/8	245	175	120	230
175		245	175	121	231
	7	251	175	121	232
180		255	175	122	234
	7-1/8	257	175	122	234
	7-1/4	263	175	123	236
185		265	175	125	238
	7-3/8	269	175	124	238
190		275	175	125	239
	7-1/2	275	175	125	240
	7-5/8	278	175	127	242
	7-3/4	282	175	129	245
200		285	175	128	245
	7-7/8	285	175	130	248
	8	290	175	132	250
	8-1/8	293	175	133	251
210	8-1/4	295	175	135	255
	8-3/8	298	175	136	258
215	8-1/2	300	175	138	260
	8-5/8	305	175	139	262
	8-3/4	310	175	140	264
	8-7/8	313	175	142	267

Koken®
POWER SOCKETS
Power Sockets,made from high alloy low carbon steel,
case-hardened to obtain optimum surface hardness for extreme wear resistance.
Please observe our safety advices page 4.
Koken
Koken

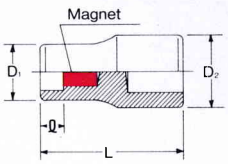
POWER SOCKETS

22400M/22400A 6-point Sockets



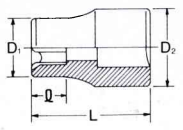
22400M (mm)	22400A (inch)	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)	(g)
6		9	11.2	5.3	22	15
7		10.2	11.2	5.8	22	15
8	5/16	11.3	12	6.8	22	14
10		14.3	12.9	8.2	22	13
13	1/2	18	16.4	10.2	22	23

22400MG/22400AG 6-point Sockets with Magnet



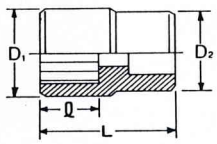
22400MG (mm)	22400AG (inch)	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)	(g)
6	1/4	10.9	12.4	2.4	23	15
7		11.8	14	2.8	23	18
8	5/16	13	14	3.5	25	21
10	3/8	14.8	14.8	4.2	28	31

22425 Hex. Lobular Sockets



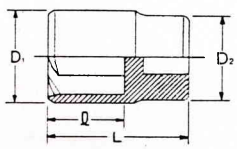
22425	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)	(g)
E 4	6.6	13	4.2	23	11
E 5	7.7	13	4.2	23	12
E 6	8.7	13	5.0	23	12
E 7	9.2	13	5.8	23	13
E 8	9.7	13	6.6	23	13
E10	12.2	13	7.4	23	13

22410M Surface Drive Sockets



22410M (mm)	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)
6	9	11.2	3.5	22
7	10.2	11.2	4	22
8	11.3	12	5	22
9	13	12	5	22
10	14.3	12.9	6	22

22465M PATHFINDER Sockets With Engagement Bevel



22465M (mm)	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)
10	14.3	12.9	8	22
11	16	14.3	8	22
12	17.4	16	9	22
13	18	16.4	9	22

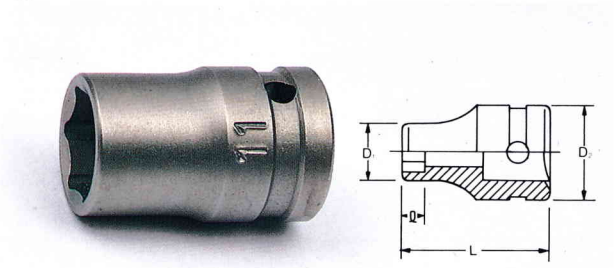
The bevelled flats of the 6-point opening of the PATHFINDER® socket engage the nut almost immediately, thus speeding productivity as the power tool must not each time be started or be stopped, an advantage for all automatic assemblies.

22760-100/-150 Extension Bar

- 22760-100 L=100mm
- 22760-150 L=150mm

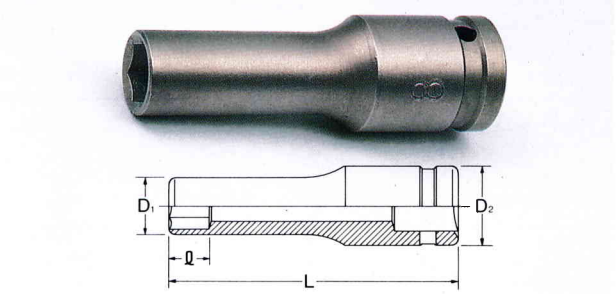
POWER SOCKETS

23400M/23400A 6-point Sockets



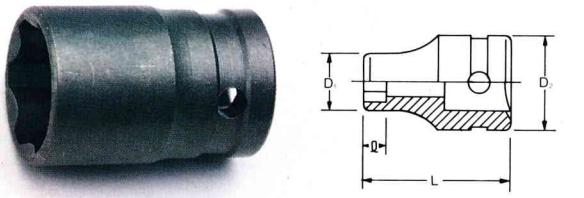
23400M (mm)	23400A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
8	5/16	11.8	17.3	5	27	21
	3/8	13.7	17.3	5	27	23
10		14.5	17.2	6	27	23
11	7/16	15.7	17.2	7	27	25
12		16.8	17.2	8	27	26
13	1/2	18	17	8	27	26
14	9/16	20	18	10	27	33
15		21	20	10	27	39
17		23.6	22	10	28	52
	11/16	24	22	10	28	52
18		24	22	12	29	52
19	3/4	26	24	12	29	65

23300M/23300A 6-point Deep Sockets



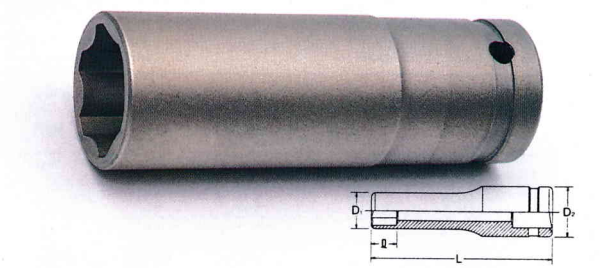
23300M (mm)	23300A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
8	5/16	12	17	7.5	55	47
10	3/8	14.5	17	9	55	51
11	7/16	16	17	10.5	55	54
12	1/2	17	17.5	12	55	58
13		18	17	12	55	54
14	9/16	19.5	18	15	55	64
15		21	20	15	55	74
17	11/16	23.5	22	15	55	94
18		24.5	23	18	55	100
19	3/4	25	24	18	55	104

23410M Surface Drive Sockets



23410M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
10	14.5	17.2	6	27
13	18	17	8	27
15	21	20	10	27
16	22	20	10	27
17	23.6	22	10	27

23310M Surface Drive Sockets



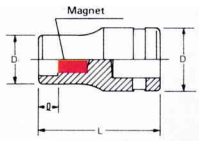
23310M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
10	14.5	17	9	55
13	18	17	12	55
15	21	20	15	55
16	22	20	15	55
17	23.5	22	15	55

23760-125/-250 Extension Bar

- 23760-125 L=125mm
- 23760-250 L=250mm

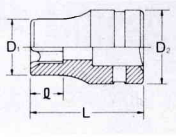
POWER SOCKETS

23400MG/23400AG 6-point Sockets with Magnet



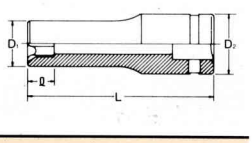
23400MG (mm)	23400AG (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
8	5/16	12.8	17.2	3.5	32
10	3/8	15.1	17.2	4.2	33
11	7/16	16.7	18.9	4.9	33
12		18	18.9	5.6	34
13	1/2	19.3	19.3	6.0	34
14	9/16	20.6	20.6	6.4	35
15		21.8	21.8	6.8	35
17	11/16	24.4	22.8	7.5	38
18		25.7	23.7	7.8	40
19	3/4	27	25	8.0	40

23425 Hex. Lobular Sockets



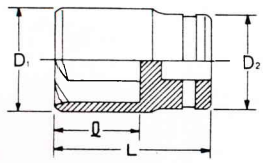
23425	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
E 4	9.7	19	4.2	32	
E 5	10.2	19	4.2	32	32
E 6	10.7	19	5.0	32	33
E 7	11.2	19	5.8	32	33
E 8	11.7	19	6.6	32	33
E10	12.2	19	7.4	32	33
E12	14.2	19	9.0	32	33
E14	17.2	19	9.8	32	41
E16	18.2	19	10.6	32	

23325 Hex. Lobular Deep Sockets



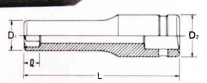
23325	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
E 4	9.7	19	4.2	55	
E 5	10.2	19	4.2	55	
E 6	10.7	19	5.0	55	
E 7	11.2	19	5.8	55	
E 8	11.7	19	6.6	55	59
E10	12.2	19	7.4	55	57
E12	14.2	19	9.0	55	63
E14	17.2	19	9.8	55	76
E16	18.2	19	10.6	55	41

23465M PATHFINDER Sockets with Engagement Bevel



23465M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
10	14.5	17.2	8	27
11	15.7	17.2	8	27
12	16.8	17.2	9	27
13	18	17	9	27
14	20	18	11	27
15	21	20	11	27
16	22	20	11	27
17	23.6	22	12	27
18	24	22	13	28
19	26	24	13	29

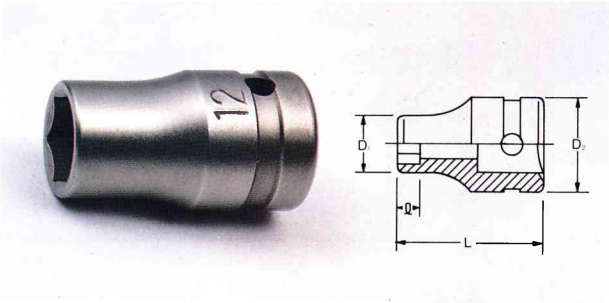
23365M PATHFINDER Sockets with Engagement Bevel



23365M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
10	14.5	17	8	55
11	16	17	8	55
12	17	17.5	9	55
13	18	17	9	55
14	20	18	11	55
15	21	20	11	55
16	22	20	11	55
17	23.5	22	12	55
18	24.5	23	13	55
19	25	24	13	55

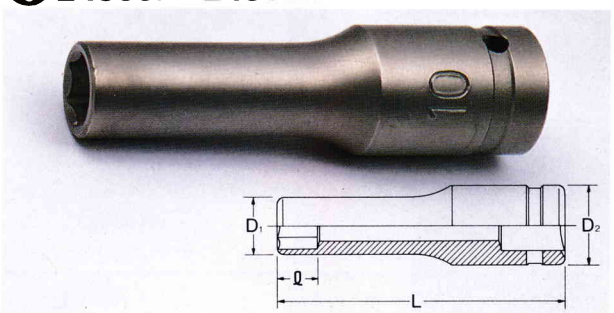
POWER SOCKETS

24400M/24400A 6-point Sockets



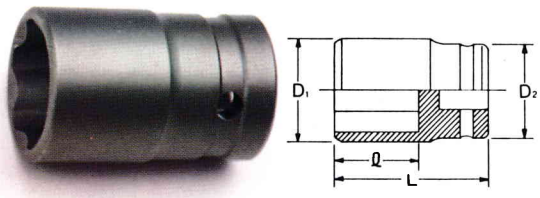
24400M (mm)	24400A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
10		15	21	7	37
11	7/16	16.3	21	7	37
12		17.6	21	8	37
13	1/2	18.8	22	8	37
14	9/16	20.4	22	10	37
15		21.7	21	10	37
16	5/8	22.9	22	10	37
17		24	23	10	37
18		25	24	12	37
19	3/4	26.8	26	12	38
21		29.5	27	14	38
24	15/16	32	30	16	42

24300M/24300A 6-point Deep Sockets



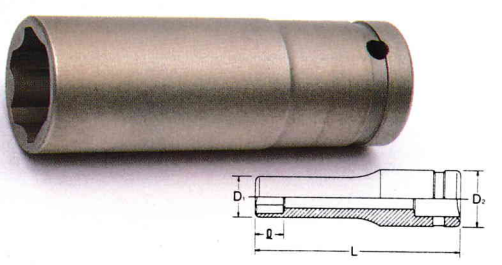
24300M (mm)	24300A (inch)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
10		15.2	21	10	77
11	7/16	16.3	21	11	77
12		17.7	21	12	77
13	1/2	18.7	21	13	77
14	9/16	20.2	21	14	77
15		21.3	22	15	77
16	5/8	22.9	22	16	77
17	11/16	24	23	17	77
18		25	24	18	77
19	3/4	26.9	26	19	77
21	13/16	28.5	27	21	77
24	15/16	32	30	24	77

24410M Surface Drive Sockets



24410M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
10	15	21	7	37
11	16.3	21	7	37
12	17.6	21	8	37
13	18.8	22	8	37
14	20.4	22	10	37
15	21.7	21	10	37
16	22.9	22	10	37
17	24	23	10	37
18	25	24	12	37
19	26.8	26	12	38
21	29.5	27	14	38

24310M Surface Drive Sockets



24310M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
10	15.2	21	11	77
11	16.3	21	12	77
12	17.7	21	13	77
13	18.7	21	14	77
14	20.2	21	15	77
15	21.3	22	16	77
16	22.9	22	17	77
17	24	23	18	77
18	25	24	19	77
19	26.9	26	20	77
21	28.5	27	23	77
22	30	27	27	77

POWER SOCKETS

24425 Hex. Lobular Sockets

24425	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)	(g)
E10	14.2	25	7.4	38	72
E12	15.2	25	9.0	38	71
E14	18.2	25	9.8	38	79
E16	19.2	25	10.6	38	76
E18	22.2	25	12.1	38	85
E20	24.2	30	13.7	38	121

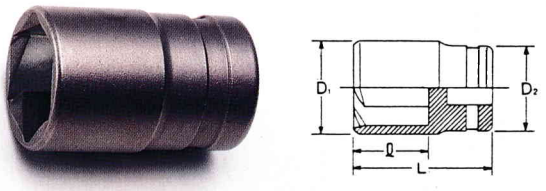
24325 Hex. Lobular Deep Sockets

24325	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)	(g)
E10	14.2	25	7.4	77	143
E12	15.2	25	9.0	77	141
E14	18.2	25	9.8	77	164
E16	19.2	25	10.6	77	164
E18	22.2	25	12.1	77	185
E20	24.2	30	13.7	77	252

24760-125/-250 Extension Bar

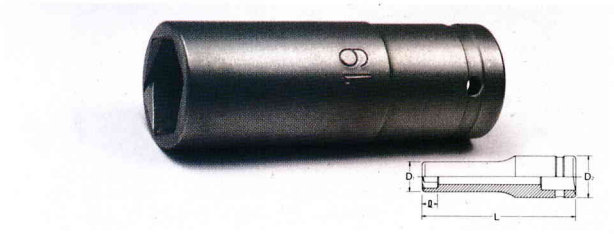
- 24760-125 L=125mm
- 24760-250 L=250mm

24465M PATHFINDER Sockets with Engagement Bevel



24465M (mm)	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)
10	15	21	8	37
11	16.3	21	8	37
12	17.6	21	9	37
13	18.8	21	9	37
14	20.4	21	11	37
15	21.7	22	11	37
16	22.9	22	11	37
17	24	23	12	37
19	26.8	26	13	38
20	28	26	14	38
22	30	27	15	40
24	32	30	15	42

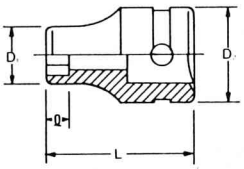
24365M PATHFINDER Sockets with Engagement Bevel



24365M (mm)	D1 (mm)	D2 (mm)	ℓ (mm)	L (mm)
10	15.2	21	8	77
11	16.3	21	8	77
12	17.7	21	9	77
13	18.7	21	9	77
14	20.2	21	11	77
15	21.3	22	11	77
16	22.9	22	11	77
17	24	23	12	77
19	26.9	26	13	77
20	28	26	14	77
22	30	27	15	77
24	32	30	15	77

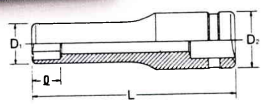
POWER SOCKETS

25400M 6-point Sockets



25400M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
19	28	30	13	46
22	31	32	15	46
24	33.5	32	17	46
27	37	32	19	49
30	41	35	21	49
32	43	35	23	53

25300M 6-point Deep Sockets



25300M (mm)	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)
19	28	30	19	88
20	29	30	20	88
22	31	32	22	88
24	33.5	32	24	88
27	37	32	27	88
30	41	35	30	88
32	43	35	32	88

SOCKET SETS

2202AW

2202AW : 23 Pieces Set ⚖ = 830 g

Sockets	Accessories
2400A-6 point sockets 9 Pcs. 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2 2400W-6 point sockets 9 Pcs. 0, 1, 2, 3, 4, 5, 6, 7, 8	5 Pcs. 2749N 2760-100 2769N 2770 2785

METAL CASE : 240 × 100 × 32 mm

2261M

2261M : 17 Pieces Set ⚖ = 690 g

Sockets	Accessories
2400M-6 point sockets 11 Pcs. 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12	6 Pcs. 2749N 2760-50 2760-150 2768N-130 2770 2785

METAL CASE : 160 × 100 × 28 mm

2251M/2251A/2251W

2251M : 17 Pieces Set ⚖ = 725 g

Sockets	Accessories
2400M-6 point sockets 11 Pcs. 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13	6 Pcs. 2749N, 2760-50, 2760-150, 2768N-130, 2770, 2785

METAL CASE : 165 × 110 × 25 mm

2251A : 15 Pieces Set ⚖ = 680 g

Sockets	Accessories
2400A-6 point sockets 9 Pcs. 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2	6 Pcs. 2749N, 2760-50, 2760-150, 2768N-130, 2770, 2785

METAL CASE : 160 × 100 × 28 mm

2251W : 15 Pieces Set ⚖ = 785 g

Sockets	Accessories
2400W-6 point sockets 9 Pcs. 0, 1, 2, 3, 4, 5, 6, 7, 8	6 Pcs. 2749N, 2760-50, 2760-150, 2768N-130, 2770, 2785

METAL CASE : 190 × 59 × 30 mm

2274M

2274M : 7 Pieces Set ⚖ = 245 g

Sockets	2300M-6 point deep sockets 7 Pcs. 6, 7, 8, 9, 10, 11, 12
Plastic Bag	

12-point opening sockets are also available for sets.

SOCKET SETS

3230AMW

3230AMW : 33 Pieces Set ⚖ = 3,750 g

Sockets	Accessories
3405M-12 point sockets 12 Pcs. 7, 8, 10, 11, 12, 13, 14, 15, 16, 18, 19, 22 3405A -12 point sockets 9 Pcs. 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8 3305W-12 point sockets 6 Pcs. 3/16, 1/4, 5/16, 3/8, 7/16, 1/2 3305P -Magnet plug socket 1 Pc. 20.6	5 Pcs. 3753N 3760-125 3760-250 3768N-250 3770

METAL CASE : 445 × 190 × 50 mm

3201AMW

3201AMW : 42 Pieces Set ⚖ = 4,700 g

Sockets	Accessories
3405M-12 point sockets 14 Pcs. 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 3405A -12 point sockets 11 Pcs. 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 25/32 13/16, 7/8 3305W-12 point sockets 7 Pcs. 1/8, 3/16, 1/4, 5/16, 3/8, 7/16 1/2	10 Pcs. 3753N 3760-75 3760-125 3760-250 3768N-250 3769 3770 3780 3785 3344A

METAL CASE : 445 × 190 × 50 mm

3221M

3221M : 18 Pieces Set ⚖ = 2,300 g

Sockets	Accessories
3405M-12 point sockets 12 Pcs. 6, 8, 9, 10, 11, 12, 13, 14, 17, 19, 21, 22	6 Pcs. 3753N, 3760-125, 3760-250, 3768N-250, 3769, 3785

METAL CASE : 392 × 90 × 50 mm

3219M

3219M : 16 Pieces Set ⚖ = 1,425 g

Sockets	3430M-Universal Hex Sockets 5, 6, 8, 10 3012M-52 Hex Sockets 4, 5, 6, 8, 10, 12 3012M-75 Hex Sockets 4, 5, 6, 8, 10, 12

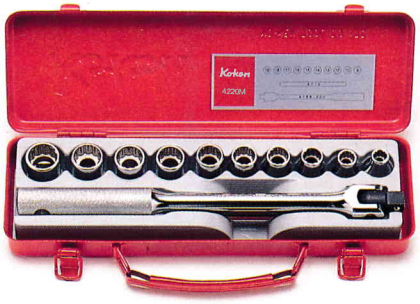
METAL CASE : 240 × 100 × 30 mm

6-point opening sockets are also available for sets.

1/2"

SOCKET SETS

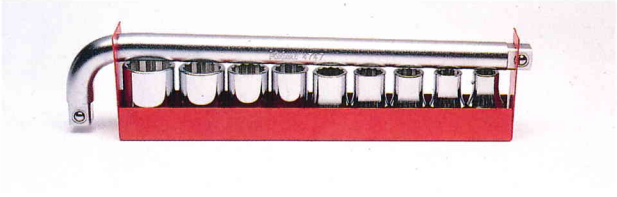
4220M/4220A



4220M : 12 Pieces Set	= 1,950 g
Sockets	Accessories
4405M-12 point sockets 10 Pcs. 9, 10, 12, 13, 14, 15, 16, 17, 18, 19	2 Pcs. 4710 4768N-380
METAL CASE : 310 × 90 × 40 mm	

4220A : 12 Pieces Set	= 1,950 g
Sockets	Accessories
4405A-12 point sockets 10 Pcs. 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8	2 Pcs. 4710 4768N-300
METAL CASE : 310 × 90 × 40 mm	

4221M/4221A



4221M : 10 Pieces Set	= 1,150 g
Sockets	Accessories
4405M-12 point sockets 9 Pcs. 10, 11, 12, 13, 14, 15, 17, 19, 22	1 Pc. 4747
METAL CASE : 220 × 31 × 60 mm	

4221A : 10 Pieces Set	=1,200 g
Sockets	Accessories
4405A-12 point sockets 9 Pcs. 3/8, 7/16, 1/2 9/16, 5/8, 11/16, 3/4, 13/16, 7/8	1 Pc. 4747
METAL CASE : 220 × 31 × 60 mm	

4225M/4225A

4225M : 13 Pieces Set	= 2,500 g
Sockets	Accessories
4405M-12 point sockets 10 Pcs. 9, 10, 12, 13, 14, 15, 17, 19, 21,23	3 Pcs. 4760-125 4768N-300 4785
METAL CASE : 310 × 90 × 48 mm	

4225A : 13 Pieces Set	= 2,500 g
Sockets	Accessories
4405A-12 point sockets 10 Pcs. 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 7/8, 15/16	3 Pcs. 4760-125 4768N-300 4785
METAL CASE : 310 × 90 × 48 mm	

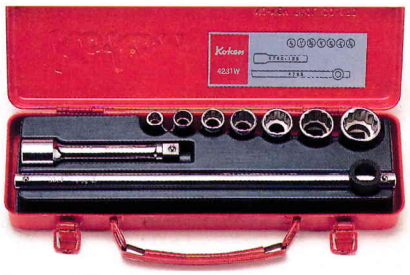
4231M/4231A

4231M : 15 Pieces Set	= 2,650 g
Sockets	Accessories
4405M-12 point sockets 13 Pcs. 10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30, 32	2 Pcs. 4760-125 4785
METAL CASE : 310 × 90 × 40 mm	

4231A : 14 Pieces Set	= 2,600 g
Sockets	Accessories
4405A-12 point sockets 12 Pcs. 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1-1/16, 1-1/8, 1-1/4	2 Pcs. 4760-125 4785
METAL CASE : 310 × 90 × 40 mm	

SOCKET SETS

4231W



4231W : 9 Pieces Set	= 1,770 g
Sockets	Accessories
4405WA-12 point sockets 7 Pcs. 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16	2 Pcs. 4760-125 4785
METAL CASE : 310 × 90 × 48 mm	

4232M

4232M : 16 Pieces Set	= 3,300 g
Sockets	Accessories
4405M-12 point sockets 13 Pcs. 8, 9, 10, 12, 13, 14, 17, 19, 21, 22, 23, 24, 26	3 Pcs. 4753N 4760-125 4768N-380
METAL CASE : 415 × 120 × 50 mm	

4258AMW

4258AMW : 53 Pieces Set	= 10,000 g
Sockets	
4405M-12 point sockets 22 Pcs. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32 4405A-12 point sockets 13 Pcs. 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8 15/16, 1-1/16, 1-1/8, 1-1/4	4405W-12 point sockets 11 Pcs. 1/8, 3/16, 1/4, 5/16, 3/8, 7/16 1/2, 9/16 5/8, 11/16, 3/4 4305P -Magnet Plug socket 1 Pc. 20.6
Accessories	
6 Pcs. 4753N, 4760-125, 4760-250, 4770, 4780, 4785	
METAL CASE : 446 × 266 × 52 mm	

4278AMW

4278AMW : 33 Pieces Set	= 5,450 g
Sockets	
4405M-12 point sockets 12 Pcs. 7, 8, 10, 11, 12, 13, 14, 15, 16, 18, 19, 22 4405A-12 point sockets 9 Pcs. 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8	4405W-12 point sockets 6 Pcs. 3/16, 1/4, 5/16, 3/8, 7/16, 1/2 4305P -Magnet Plug socket 1 Pc. 20.6
Accessories	
5 Pcs. 4753N, 4760-125, 4760-250, 4768N-380, 4770	
METAL CASE : 445 × 190 × 50 mm	

4278AMWD
METAL CASE
500×200×150mm

6-point opening sockets are also available for sets.

3/4”

SOCKET SETS

6290M

6290M : 23 Pieces Set	⚖ = 20,000 g
Sockets	Accessories
6405M-12 point sockets 16 Pcs. 21, 23, 26, 29, 31, 32, 34, 35, 36, 38, 41, 46, 50, 54, 58, 63	7 Pcs. 6101 6749 6760-75 6760-200 6760-400 6770 6785
METAL CASE : 635 × 215 × 85 mm	

6290A : 29 Pieces Set	⚖ = 23,000 g
Sockets	Accessories
6405A-12 point sockets 22 Pcs. 7/8, 15/16, 31/32, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2, 1-9/16, 1-5/8, 1-11/16, 1-3/4, 1-13/16, 1-7/8, 2, 2-1/8, 2-3/16, 2-1/4	7 Pcs. 6101 6749 6760-75 6760-200 6760-400 6770 6785
METAL CASE : 635 × 215 × 85 mm	

1”

SOCKET SETS

8250M

8250M : 16 Pieces Set	⚖ = 31,000 g
Sockets	Accessories
8405M-12 point sockets 11 Pcs. 46, 50, 54, 55, 58, 60, 63, 65, 67, 70, 71	5 Pcs. 8749 8760-200 8760-400 8785 8866A
METAL CASE : 655 × 215 × 115 mm	

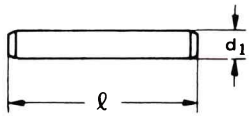
8290M

8290M : 13 Pieces Set	⚖ = 22,800 g
Sockets	Accessories
8405M-12 point sockets 8 Pcs. 35, 38, 41, 46, 50, 54, 58, 63	5 Pcs. 8749 8760-200 8760-400 6770 6785
METAL CASE : 635 × 150 × 100 mm	

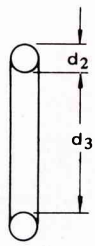
8290A : 13 Pieces Set	⚖ = 22,800 g
Sockets	Accessories
8405A-12 point sockets 8 Pcs. 1-7/16, 1-1/2, 1-5/8, 1-13/16, 2, 2-1/8, 2-1/4, 2-1/2	5 Pcs. 8749 8760-200 8760-400 6770 6785
METAL CASE : 635 × 150 × 100 mm	

PINS & O-RINGS

A

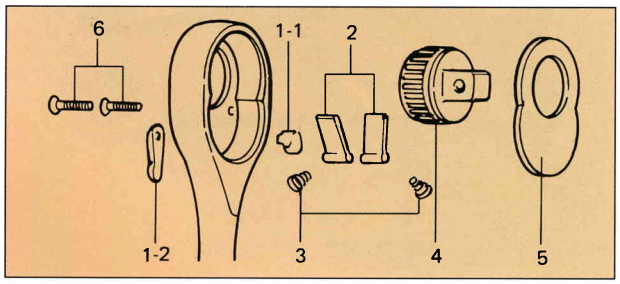


B



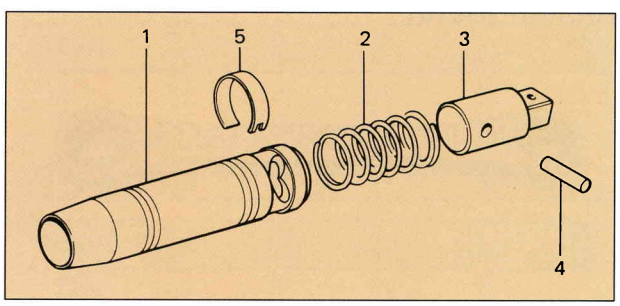
No.	⊠	Opening	A		B	
			d1	ℓ	d2	d3
1200	6.3(1/4)		1.8	10.2	2.5	9
1301	10 (3/8)	≦12	3	14.5	3.5	13
1302	10 (3/8)	>12	3	17.5	3.5	16
1401	12.5(1/2)	≧14	3.5	20	4	19
1402	12.5(1/2)	>14	3.5	25	4	24
1500	16 (5/8)		3.5	30	4.5	28
1600	20 (3/4)		5	35	5	36
1700	38 (1-1/2)		7	75	10	75
1800	25 (1)		5.5	45	7	45
1900	63 (2-1/2)		9	110	10.5	114

ASSORTED SPARE PARTS FOR REVERSIBLE RATCHETS



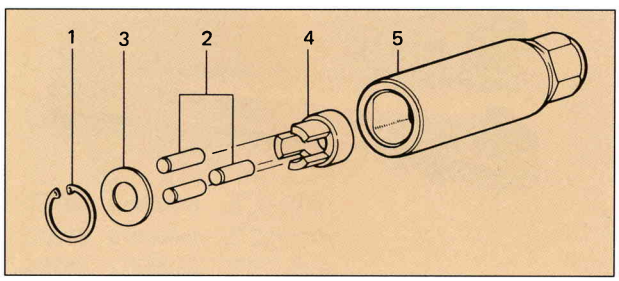
1-1. Reversion Cam
1-2. Reversion Lever
2. Dog
3. Spring
4. Square Drive
5. Cover Plate
6. Screw

ASSORTED SPARE PARTS FOR ATTACK DRIVER



1. Body
2. Coil Spring
3. Square Drive
4. Pin
5. Spring Ring

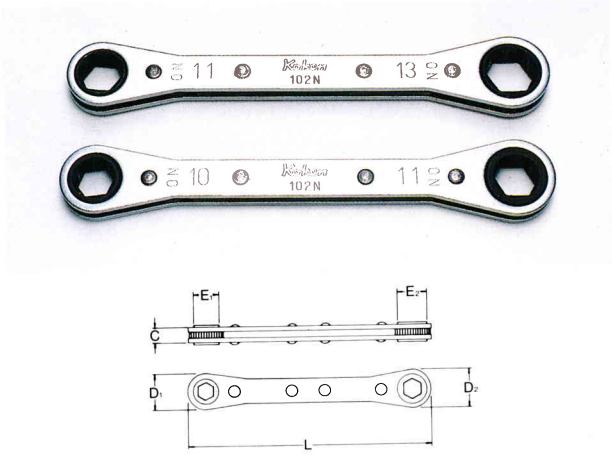
ASSORTED SPARE PARTS FOR STUD PULLERS



1. Retaining Ring
2. Roller
3. Cover
4. Cage
5. Body

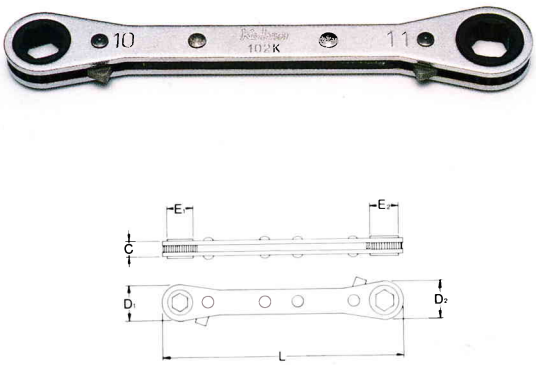
RATCHET SPANNERS

102NM/102NA



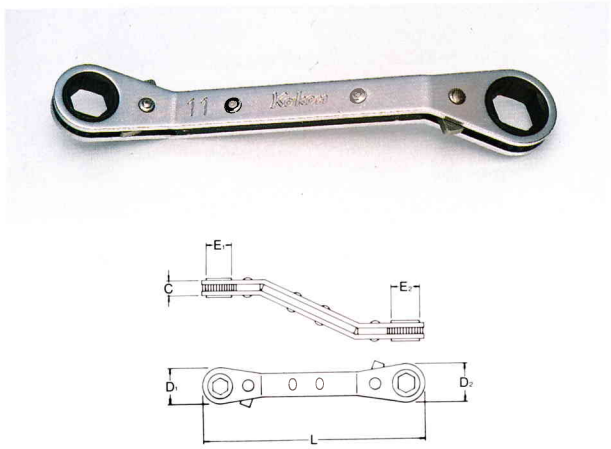
102NM (mm)	102NA (inch)	L (mm)	D_1 (mm)	D_2 (mm)	C (mm)	E_1 (mm)	E_2 (mm)	(g)
	7/32X 1/4	108	15.3	16.4	7.5	11.1	12.2	60
6X 7	1/4 X 9/32	108	15.3	16.4	7.5	11.1	12.2	60
7X 8	1/4 X 5/16	108	15.3	16.4	7.5	11.1	12.2	60
8X 9	5/16X11/32	134	17.1	19.7	7.5	12.2	14.0	80
8X10	5/16X 3/8	134	17.1	19.7	7.5	12.2	14.0	80
10X11	3/8 X 7/16	140	20.1	22.7	7.5	15.1	17.7	87
12X13	7/16X 1/2	145	23.6	24.6	9.0	18.3	19.3	112
12X14	1/2 X 9/16	145	23.6	24.6	9.0	18.3	19.3	112

102KM/102KA With Switch Lever



102KM (mm)	102KA (inch)	L (mm)	D_1 (mm)	D_2 (mm)	C (mm)	E_1 (mm)	E_2 (mm)	(g)
	7/32X 1/4	108	15.3	16.4	7.5	11.1	12.2	60
6X 7	1/4 X 9/32	108	15.3	16.4	7.5	11.1	12.2	60
7X 8	1/4 X 5/16	108	15.3	16.4	7.5	11.1	12.2	60
8X 9	5/16X11/32	134	17.1	19.7	7.5	12.2	14.0	80
8X10	5/16X 3/8	134	17.1	19.7	7.5	12.2	14.0	80
10X11	3/8 X 7/16	140	20.1	22.7	7.5	15.1	17.7	87
12X13	7/16X 1/2	145	23.6	24.6	9.0	18.3	19.3	112
12X14	1/2 X 9/16	145	23.6	24.6	9.0	18.3	19.3	112

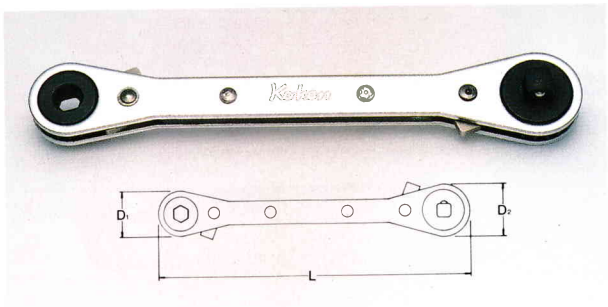
103KM/103KA With Switch Lever



103KM (mm)	103KA (inch)	L (mm)	D_1 (mm)	D_2 (mm)	C (mm)	E_1 (mm)	E_2 (mm)	(g)
	7/32X 1/4	104	15.3	16.4	7.5	11.1	12.2	60
6X 7	1/4 X 9/32	104	15.3	16.4	7.5	11.1	12.2	60
7X 8	1/4 X 5/16	104	15.3	16.4	7.5	11.1	12.2	60
8X 9	5/16X11/32	128	17.1	19.7	7.5	12.2	14.0	80
8X10	5/16X 3/8	128	17.1	19.7	7.5	12.2	14.0	80
10X11	3/8 X 7/16	133	20.1	22.7	7.5	15.1	17.7	87
12X13	7/16X 1/2	139	23.6	24.6	9.0	18.3	19.3	112
12X14	1/2 X 9/16	139	23.6	24.6	9.0	18.3	19.3	112

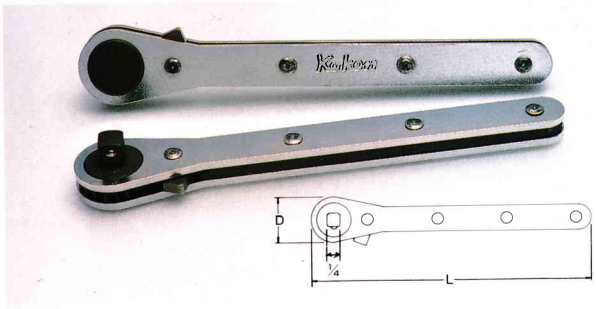
RATCHET

138



L=140mm 凹1/4H×凸1/4sq ⚖ =90g

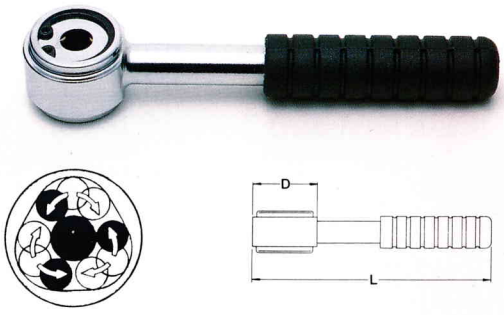
139



L=125mm ⚖ =80g

STUD PULLER RATCHET

141S/141

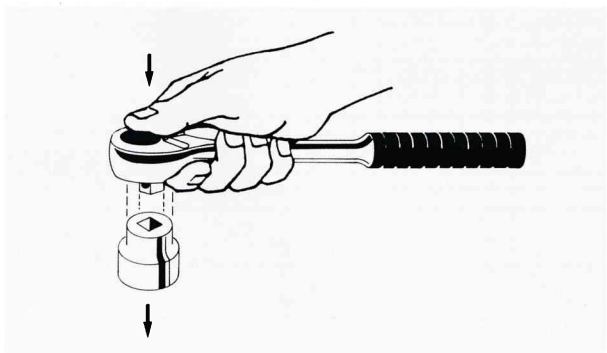


141S	D (mm)	L (mm)	(g)
6	28	120	150
8	28	120	150
10	32	120	153
12	32	120	152

141	D (mm)	L (mm)	(g)
6	28	205	210
8	28	205	210
10	32	205	229
12	32	205	227

PUSH BUTTON RATCHET

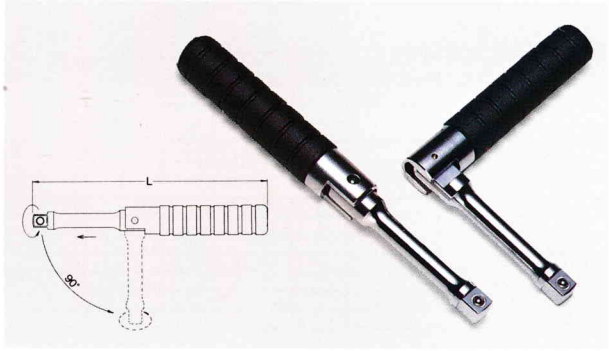
2749GB/3753GB/4753GB



- 2749GB L=125mm =90g
- 3753GB L=200mm =270g
- 4753GB L=250mm =500g

FLEXIBLE SPIN HANDLES

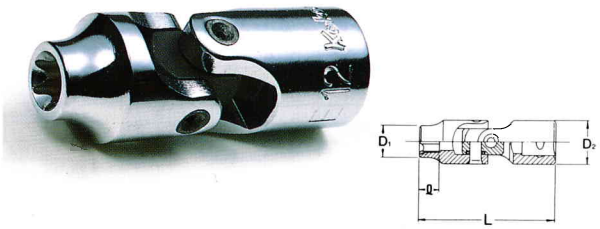
2769H/3769H



- 2769H L=160mm =180g
- 3769H L=170mm =210g

UNIVERSAL SOCKETS

3440T/4440T Hex Lobular Universal Sockets

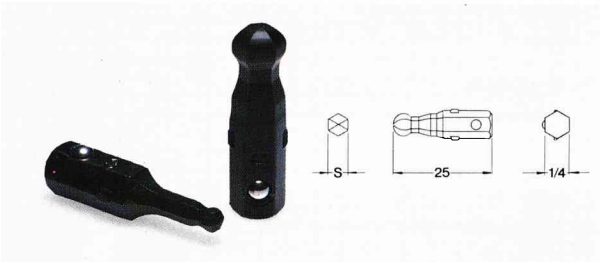


3440T	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
E 8	9.9	19	6.6	48	
E10	11.8	19	7.4	49	
E12	14.5	19	9.0	51	
E14	15.7	19	9.8	52	

4440T	D_1 (mm)	D_2 (mm)	ℓ (mm)	L (mm)	(g)
E10	13.2	25	7.4	66	
E12	15.0	25	9.0	68	
E14	16.3	25	9.8	69	

BIT

101B-3/-4/-5/-6



S=3, 4, 5, 6mm

Equivalent Standard Bolt Diameters

of German, American, British, Norwegian, French, and Swedish sizes for Wrenches

Socket Opening		Metric sizes												American sizes																		English sizes		
		SW	Threaded diameters												Thread Diameter																	Thread Diam		
			ISO R272-1968		German Standard				French Standard	Swedish Standards					ISO R272-1962																	W	BS	
					metric													Normal Series		Heavy Series		Nuts			Bolts and Screws					Nuts				
minimum dimension	maximum dimension	nominal size of wrench mm	standard hexagon	small hexagon	DIN.....[2])	DIN 561 + 564	DIN 6914 + 6915 5	Danish Stand. DS 17	NFE 27-111-1930[3])	Metric large SMS 1412	Metric small SMS 1414	Whitworth large SMS 1413	Whitworth small SMS 1415	Nominal Size of Wrench A/F	Bolts	Nuts	Actual A/F	Bolts	Nuts	Bolts	Nuts	Normal a	Square b	Heavy c	Normal d	Heavy e	Machine Screws f	Set Screws Square g	Machine Screw Nuts h	Whitworth Large	BS 916, 1953 and BS 1083, 1968, 1965	Width across flats inch
2.52	2.58	2.5			1																												
3.02	3.08	3			1.2 + 1.4																												
3.22	3.28	3.2	1.6		1.6																												
3.23	3.35													1/8	No2											No2 + 3							
3.52	3.60	3.5			1.7																												
4.01	4.14													5/32		No0 + 1												No0 + 1				
4.02	4.12	4	2		2				2.5		2.3																						
4.52	4.62	4.5			2.3						2.6																						
4.83	4.95													3/16	No3,4 + 5	No2 + 3	19									No4 + 5	No10	No2 + 3					
5.02	5.12	5	2.5		2.5 + 2.6				3		3																						
5.21	5.33													13/64																			
5.52	5.62	5.5	3		3																												
5.59	5.72													7/32													No12						
6.00	6.13													15/64																			
6.03	6.15	6			3.5				3.5	3	3.5																						
6.40	6.53													1/4	No6 + 8	No4	25									No6 + 8	1/4	No4					
6.60	6.70																														1/16		.256
6.82	6.97													17/64																			
7.03	7.15	7	4		4				4 + 4.5	3.5	4																						
7.19	7.32													9/32											No10								
7.60	7.70																														3/32		.297
7.62	7.77													19/64																			
8.03	8.18													5/16	No10 + 12	No5 + 6	31									No10 + 12	5/16	No5 + 6					
8.03	8.15	8	5		5	6			5	4	5																						
8.41	8.56													21/64																			
8.70	8.80																														1/8	3/16	.340
8.81	8.97													11/32		No8	34											No8					
9.03	9.15	9			5[5])				5.5	5																							
9.60	9.75													3/8		No10	38								1/4		1/4	3/8	No10				
10.04	10.19	10	6		6	8			6		6																						
10.39	10.55													13/32																			
11.04	11.19	11	7		7			1/4		6	7		1/4																				
11.18	11.33													7/16	1/4	No12,1/4	44	1/4	1/4			1/4	1/4		1/4			7/16	No12,1/4				
11.38	11.45																														3/16	1/4	.445
11.99	12.14													15/32																			
12.04	12.24	12		8					7		8																						
12.80	12.95													1/2	5/16	5/16	50	5/16	5/16		1/4	5/16		1/4	5/16		5/16	1/2					
13.04	13.24	13	8		8	10						1/4	5/16																				
13.44	13.54																														1/4	5/16	.525
13.60	13.77													17/32																			
14.05	14.27	14		10	8[6])			5/16	8	8																							
14.38	14.55													9/16	3/8	3/8	56	3/8	3/8		5/16	3/8	5/16	5/16	3/8		3/8	5/16	5/16				
15.05	15.27	15			10[5])						10	5/16	3/8																				
15.18	15.36													19/32																			
15.34	15.44																														5/16	3/8	.600
15.98	16.15		Spark plug M 10 x 1.0											5/8	7/16		62	7/16				3/8		7/16			5/8	3/8					
16.05	16.27	16	10																														
16.77	16.95													21/32																			
17.05	17.30	17		12	10	12		3/8	10	10																							
17.58	17.75		Spark plug M 12 x 1.25											11/16		7/16	69		7/16		3/8	7/16		3/8									
18.05	18.30	18	12								12	3/8	7/16																				
18.16	18.29																														3/8	7/16	.710
19.06	19.36	19		14	12	16		7/16	11																								
19.18	19.38													3/4	1/2	1/2	75	1/2	1/2		7/16	1/2	7/16	7/16	1/2			3/4					
19.97	20.17													25/32																			
20.06	20.36	20																															
20.78	20.98		Spark plug M 14 x 1.25											13/16	9/16		81	9/16					1/2		9/16									
20.86	21.16	20.8																															
20.95	21.08																														7/16	1/2	.820
21.06	21.36	21	14						12		14	7/16	1/2																				
22.06	22.36	22		16	14		12	1/2		12 + 14																							
22.35	22.56													7/8		9/16	88		9/16	1/2	1/2	9/16	9/16	1/2		1/2		7/16					
23.06	23.36	23							14			1/2																					
23.52	23.67																														1/2	9/16	.920
23.98	24.21													15/16	5/8	5/8	94	5/8	5/8			5/8		9/16	5/8								
24.06	24.36	24	16	18	16	20					16		5/8																				
24.76	24.99													31/32																			
25.06	25.36	25																															
25.55	25.78													1			100						5/8					1				
25.81	25.96																														9/16	5/8	1.010
26.08	26.48	26	Spark plug M 18 x 1.5																														
27.08	27.48	27	18	20	18		16	5/8		16	18																						
27.13	27.36													11/16			106			5/8	5/8			5/8		5/8							
28.12	28.30																														5/8	5/8	1.100
28.08	28.48	28										5/8	3/4																				
28.75	29.01													1 1/8	3/4	3/4	112	3/4	3/4			3/4	3/4		3/4			1 1/8					
29.08	29.48	29							18																								
30.08	30.48	30	20	22	20	24					20																						
30.34	30.59													1 3/16																			
30.66	30.84																														11/16	3/4	1.200
31.93	32.18													1 1/4			125			3/4	3/4			3/4		3/4		1 1/4					
32.08	32.48	32		24	22		20	3/4	20	18 + 20	22																						
33.08	33.48	33										3/4	7/8																				
33.22	33.43																														3/4	7/8	1.300
33.53	33.81													15/16	7/8	7/8	131	7/8	7/8			7/8	7/8		7/8								
34.08	34.48	34	22								24																						
35.10	35.60	35							22																								
35.13	35.41													1 3/8														1 3/8					
35.51	35.71																														13/16	13/16	1.390
36.10	36.60	36	24	27	24	30	22	7/8		22 + 24																							

Equivalent Standard Bolt Diameters

of German, American, British, Norwegian, French, and Swedish sizes for Wrenches

Socket Opening		Metric sizes												American sizes																		English sizes		
		SW	Threaded diameters												Thread Diameter																	Thread Diam		
			ISO R272-1968		German Standard				French Standard	Swedish Standards				Nominal Size of Wrench A/F	ISO R272-1962																	W	BS	
					metric													Normal Series		Heavy Series		Nuts			Bolts and Screws					Nuts				
minimum dimension	maximum dimension	nominal size of wrench mm	standard hexagon	small hexagon	DIN.....[2]	DIN 561 + 564	DIN 6914 + 6915	Danish Stand. DS 17	NFE 27-111-1930[3]	Metric large SMS 1412	Metric small SMS 1414	Whitworth large SMS 1413	Whitworth small SMS 1415		Bolts	Nuts	Actual A/F	Bolts	Nuts	Bolts	Nuts	a Normal	b Square	c Heavy	d Normal	e Heavy	f Machine Screws	g Set Screws Square	h Machine Screw Nuts	Whitworth Large	BS 916, 1953 and BS 1083, 1968, 1965	Width across flats inch
36.73	37.01													1 7/16						7/8	7/8			7/8		7/8							
37.10	37.60	37									7/8	1																					
37.82	38.05																													7/8	1	1.480
38.10	38.60	38							24																								
38.30	38.61													1 1/2	1	1	150	1	1			1	1		1			1 1/2				
39.89	40.20													1 9/16																			
40.36	40.59																													15/16	1 1/16	1.580
41.10	41.60	41	27	30	27		24	1		27																							
41.50	41.81													1 5/8			162			1	1			1		1							
42.10	42.60	42							27			1	1 1/8																				
42.67	42.93																													1	1 1/8	1.670
43.08	43.38													1 11/16	1 1/8	1 1/8	169	1 1/8	1 1/8			1 1/8	1 1/8		1 1/8							
44.70	45.03													1 3/4																			
46.10	46.60	46	30	33	30	36	27	1 1/8	30	30																							
46.28	46.61													1 13/16			181			1 1/8	1 1/8			1 1/8		1 1/8							
47.10	47.60	47										1 1/8	1 1/4																				
47.52	47.80																													1 1/8	1 1/4	1.860
47.88	48.21													1 7/8	1 1/4	1 1/4	168	1 1/4	1 1/4			1 1/4	1 1/4		1 1/4							
50.10	50.60	50	33	36	33			1 1/4	33	33																							
51.08	51.44													2			200			1 1/4	1 1/4			1 1/4		1 1/4							
52.10	52.60	52										1 1/4	1 3/8																				
52.37	52.68																													1 1/4	1 3/8	2.050
52.68	53.04													2 1/16	1 3/8	1 3/8	206	1 3/8	1 3/8			1 3/8	1 3/8		1 3 8								
54.12	54.72	54							36																								
54.25	54.61													2 1/8																			
55.12	55.72	55	36	39	36	42		1 3/8		36																							
55.88	56.26													2 3/16			219			1 3/8	1 3/8			1 3/8		1 3/8							
56.12	56.72	56										1 3/8	1 1/2																				
56.72	57.05																													1 3/8	1 1/2	2.220
57.45	57.84													2 1/4	1 1/2	1 1/2	225	1 1/2	1 1/2			1 1/2	1 1/2		1 1/2								
58.12	58.72	58							39																								
60.12	60.72	60	39		39			1 1/2		39		1 1/2	1 5/8																				
60.66	61.06													2 3/8			238			1 1/2	1 1/2			1 1/2		1 1/2							
61.57	61.92																													1 1/2	1 3/8	2.410
62.23	62.64													2 7/16												1 3/8							
63.12	63.72	63							42																								
63.83	64.24													2 1/2																			
65.12	65.72	65	42		42	48		1 3/8		42		1 5/8	1 3/4																				
65.43	65.86													2 9/16			256							1 5/8		1 5/8							
65.91	66.29																													1 5/8	1 3/4	2.580
67.03	67.46													2 5/8	1 3/4	1 3/4	262	1 3/4	1 3/4						1 3 4								
67.12	67.72	67							45																								
70.12	70.72	70	45		45			1 3/4		45		1 3/4	1 7/8																				
70.26	70.69													2 3/4			275			1 3/4	1 3/4			1 3/4		1 3/4							
70.51	70.92																													1 3/4	2	2.760
71.12	71.72	71							48																								
71.81	72.26													2 13/16											1 7/8								
75.03	75.51													2 15/16			294							1 7/8		1 7/8							
75.15	75.85	75	48		48	56		1 7/8		48		1 7/8	2																				
76.61	77.09													3	2	2	300	2	2						2								
77.15	77.85	77							52																								
79.81	80.31													3 1/8			312			2	2			2		2							
80.15	80.85	80	52		52			2	52		2																						
80.47	80.92																													2	2 1/4	3.150
82.15	82.85	82							56																								
85.15	85.85	85	56		56			2 1/4																									
86.18	86.72													3 3/8											2 1/4								
88.15	88.85	88							60																								
89.36	89.92													3 1/2										2 1/4		2 1/4							
90.15	90.85	90	60		60																												
90.60	91.00																														2 1/2	3.550	
94.15	94.85	94							64																								
95.15	95.85	95	64		64			2 1/2																									
95.76	96.34													3 3/4											2 1/2								
98.93	99.52													3 7/8										2 1/2		2 1/2							
99.20	99.60																														2 3/4	3.890	
100.15	100.85	100	68		68				68																								
105.20	106.00	105	72		72			2 3/4	72																								
105.33	105.97													4 1/8										2 3/4									
106.60	107.00																														3	4.180	
108.51	109.14													4 1/4										2 3/4									
110.20	111.00	110	96		76			3	76																								
114.91	115.57													4 1/2											3								
115.20	116.00	115	80		80				80																								
116.20	117.00	116							80																								
118.08	118.77													4 5/8										3		3							
120.20	121.00	120	85		85			3 1/4																									

Kokon Conversion Table: American Inches-Decimal Inches-Millimeter

in.	dec. in.	0″	1″	2″	3″	4″	5″	6″	7″	8″	9″	10″	11″
		Millimeter(mm)											
0	0	0	25.400 0	50.800 0	76.200 0	101.600 0	127.000 0	152.400 0	177.800 0	203.200 0	228.600 0	254.000 0	279.400 0
1/64	0.015 625	0.396 9	25.796 9	51.196 9	76.596 9	101.996 9	127.396 9	152.796 9	178.196 9	203.596 9	228.996 9	254.396 9	279.796 9
1/32	0.031 25	0.793 8	26.193 8	51.593 8	76.993 8	102.393 8	127.793 8	153.193 8	178.593 8	203.993 8	229.393 8	254.793 8	280.193 8
3/64	0.046 875	1.190 6	26.590 6	51.990 6	77.390 6	102.790 6	128.190 6	153.590 6	178.990 6	204.390 6	229.790 6	255.190 6	280.590 6
1/16	0.062 5	1.587 5	26.987 5	52.387 5	77.787 5	103.187 5	128.587 5	153.987 5	179.387 5	204.787 5	230.187 5	255.587 5	280.987 5
5/64	0.078 125	1.984 4	27.384 4	52.784 4	78.184 4	103.584 4	128.984 4	154.384 4	179.784 4	205.184 4	230.584 4	255.984 4	281.384 4
3/32	0.093 75	2.381 2	27.781 2	53.181 2	78.581 2	103.981 2	129.381 2	154.781 2	180.181 2	205.581 2	230.981 2	256.381 2	281.781 2
7/64	0.109 375	2.778 1	28.178 1	53.578 1	78.978 1	104.378 1	129.778 1	155.178 1	180.578 1	205.978 1	231.378 1	256.778 1	282.178 1
1/8	0.125	3.175 0	28.575 0	53.975 0	79.375 0	104.775 0	130.175 0	155.575 0	180.975 0	206.375 0	231.775 0	257.175 0	282.575 0
9/64	0.140 625	3.571 9	28.971 9	54.371 9	79.771 9	105.171 9	130.571 9	155.971 9	181.371 9	206.771 9	232.171 9	257.571 9	282.971 9
5/32	0.156 25	3.968 8	29.368 8	54.768 8	80.168 8	105.568 8	130.968 8	156.368 8	181.768 8	207.168 8	232.568 8	257.968 8	283.368 8
11/64	0.171 875	4.365 6	29.765 6	55.165 6	80.565 6	105.965 6	131.365 6	156.765 6	182.165 6	207.565 6	232.965 6	258.365 6	283.765 6
3/16	0.187 5	4.762 5	30.162 5	55.562 5	80.962 5	106.362 5	131.762 5	157.162 5	182.562 5	207.962 5	233.362 5	258.762 5	284.162 5
13/64	0.203 125	5.159 4	30.559 4	55.959 4	81.359 4	106.759 4	132.159 4	157.559 4	182.959 4	208.359 4	233.759 4	259.159 4	284.559 4
7/32	0.218 75	5.556 2	30.956 2	56.356 2	81.756 2	107.156 2	132.556 2	157.956 2	183.356 2	208.756 2	234.156 2	259.556 2	284.956 2
15/64	0.234 375	5.953 1	31.353 1	56.753 1	82.153 1	107.553 1	132.953 1	158.353 1	183.753 1	209.153 1	234.553 1	259.953 1	285.353 1
1/4	0.25	6.350 0	31.750 0	57.150 0	82.550 0	107.950 0	133.350 0	158.750 0	184.150 0	209.550 0	234.950 0	260.350 0	285.750 0
17/64	0.265 625	6.746 9	32.146 9	57.546 9	82.946 9	108.346 9	133.746 9	159.146 9	184.546 9	209.946 9	235.346 9	260.746 9	286.146 9
9/32	0.281 25	7.143 8	32.543 8	57.943 8	83.343 8	108.743 8	134.143 8	159.543 8	184.943 8	210.343 8	235.743 8	261.143 8	286.543 8
19/64	0.296 875	7.540 6	32.940 6	58.340 6	83.740 6	109.140 6	134.540 6	159.940 6	185.340 6	210.740 6	236.140 6	261.540 6	286.940 6
5/16	0.312 5	7.937 5	33.337 5	58.737 5	84.137 5	109.537 5	134.937 5	160.337 5	185.737 5	211.137 5	236.537 5	261.937 5	287.337 5
21/64	0.328 125	8.334 4	33.734 4	59.134 4	84.534 4	109.934 4	135.334 4	160.734 4	186.134 4	211.534 4	236.934 4	262.334 4	287.734 4
11/32	0.343 75	8.731 2	34.131 2	59.531 2	84.931 2	110.331 2	135.731 2	161.131 2	186.531 2	211.931 2	237.331 2	262.731 2	288.131 2
23/64	0.359 375	9.128 1	34.528 1	59.928 1	85.328 1	110.728 1	136.128 1	161.528 1	186.928 1	212.328 1	237.728 1	263.128 1	288.528 1
3/8	0.375	9.525 0	34.925 0	60.325 0	85.725 0	111.125 0	136.525 0	161.925 0	187.325 0	212.725 0	238.125 0	263.525 0	288.925 0
25/64	0.390 625	9.921 9	35.321 9	60.721 9	86.121 9	111.521 9	136.921 9	162.321 9	187.721 9	213.121 9	238.521 9	263.921 9	289.321 9
13/32	0.406 25	10.318 8	35.718 8	61.118 8	86.518 8	111.918 8	137.318 8	162.718 8	188.118 8	213.518 8	238.918 8	264.318 8	289.718 8
27/64	0.421 875	10.715 6	36.115 6	61.515 6	86.915 6	112.315 6	137.715 6	163.115 6	188.515 6	213.915 6	239.315 6	264.715 6	290.115 6
7/16	0.437 5	11.112 5	36.512 5	61.912 5	87.312 5	112.712 5	138.112 5	163.512 5	188.912 5	214.312 5	239.712 5	265.112 5	290.512 5
29/64	0.453 125	11.509 4	36.909 4	62.309 4	87.709 4	113.109 4	138.509 4	163.909 4	189.309 4	214.709 4	240.109 4	265.509 4	290.909 4
15/32	0.468 75	11.906 2	37.306 2	62.706 2	88.106 2	113.506 2	138.906 2	164.306 2	189.706 2	215.106 2	240.506 2	265.906 2	291.306 2
31/64	0.484 375	12.303 1	37.703 1	63.103 1	88.503 1	113.903 1	139.303 1	164.703 1	190.103 1	215.503 1	240.903 1	266.303 1	291.703 1
1/2	0.5	12.700 0	38.100 0	63.500 0	88.900 0	114.300 0	139.700 0	165.100 0	190.500 0	215.900 0	241.300 0	266.700 0	292.100 0
33/64	0.515 625	13.096 9	38.496 9	63.896 9	89.296 9	114.696 9	140.096 9	165.496 9	190.896 9	216.296 9	241.696 9	267.096 9	292.496 9
17/32	0.531 25	13.493 8	38.893 8	64.293 8	89.693 8	115.093 8	140.493 8	165.893 8	191.293 8	216.693 8	242.093 8	267.493 8	292.893 8
35/64	0.546 875	13.890 6	39.290 6	64.690 6	90.090 6	115.490 6	140.890 6	166.290 6	191.690 6	217.090 6	242.490 6	267.890 6	293.290 6
9/16	0.562 5	14.287 5	39.687 5	65.087 5	90.487 5	115.887 5	141.287 5	166.687 5	192.087 5	217.487 5	242.887 5	268.287 5	293.687 5
37/64	0.578 125	14.684 4	40.084 4	65.484 4	90.884 4	116.284 4	141.684 4	167.084 4	192.484 4	217.884 4	243.284 4	268.684 4	294.084 4
19/32	0.593 75	15.081 2	40.481 2	65.881 2	91.281 2	116.681 2	142.081 2	167.481 2	192.881 2	218.281 2	243.681 2	269.081 2	294.481 2
39/64	0.609 375	15.478 1	40.878 1	66.278 1	91.678 1	117.078 1	142.478 1	167.878 1	193.278 1	218.678 1	244.078 1	269.478 1	294.878 1
5/8	0.625	15.875 0	41.275 0	66.675 0	92.075 0	117.475 0	142.875 0	168.275 0	193.675 0	219.075 0	244.475 0	269.875 0	295.275 0
41/64	0.640 625	16.271 9	41.671 9	67.071 9	92.471 9	117.871 9	143.271 9	168.671 9	194.071 9	219.471 9	244.871 9	270.271 9	295.671 9
21/32	0.656 25	16.668 8	42.068 8	67.468 8	92.868 8	118.268 8	143.668 8	169.068 8	194.468 8	219.868 8	245.268 8	270.668 8	296.068 8
43/64	0.671 875	17.065 6	42.465 6	67.865 6	93.265 6	118.665 6	144.065 6	169.465 6	194.865 6	220.265 6	245.665 6	271.065 6	296.465 6
11/16	0.687 5	17.462 5	42.862 5	68.262 5	93.662 5	119.062 5	144.462 5	169.862 5	195.262 5	220.662 5	246.062 5	271.462 5	296.862 5
45/64	0.703 125	17.859 4	43.259 4	68.659 4	94.059 4	119.459 4	144.859 4	170.259 4	195.659 4	221.059 4	246.459 4	271.859 4	297.259 4
23/32	0.718 75	18.256 2	43.656 2	69.056 2	94.456 2	119.856 2	145.256 2	170.656 2	196.056 2	221.456 2	246.856 2	272.256 2	297.656 2
47/64	0.734 375	18.653 1	44.053 1	69.453 1	94.853 1	120.253 1	145.653 1	171.053 1	196.453 1	221.853 1	247.253 1	272.653 1	298.053 1
3/4	0.75	19.050 0	44.450 0	69.850 0	95.250 0	120.450 0	146.050 0	171.450 0	196.850 0	222.250 0	247.650 0	273.050 0	298.450 0
49/64	0.765 625	19.446 9	44.846 9	70.246 9	95.646 9	121.046 9	146.446 9	171.846 9	197.246 9	222.646 9	248.046 9	273.446 9	298.846 9
25/32	0.781 25	19.843 8	45.243 8	70.643 8	96.043 8	121.443 8	146.843 8	172.243 8	197.643 8	223.043 8	248.443 8	273.843 8	299.243 8
51/64	0.796 875	20.240 6	45.640 6	71.040 6	96.440 6	121.840 6	147.240 6	172.640 6	198.040 6	223.440 6	248.840 6	274.240 6	299.640 6
13/16	0.812 5	20.637 5	46.037 5	71.437 5	96.837 5	122.237 5	147.637 5	173.037 5	198.437 5	223.837 5	249.237 5	274.637 5	300.037 5
53/64	0.828 125	21.034 4	46.434 4	71.834 4	97.234 4	122.634 4	148.034 4	173.434 4	198.834 4	224.234 4	249.634 4	275.034 4	300.434 4
27/32	0.843 75	21.431 2	46.831 2	72.231 2	97.631 2	123.031 2	148.431 2	173.831 2	199.231 2	224.631 2	250.031 2	275.431 2	300.831 2
55/64	0.859 375	21.828 1	47.228 1	72.628 1	98.028 1	123.428 1	148.828 1	174.228 1	199.628 1	225.028 1	250.428 1	275.828 1	301.228 1
7/8	0.875	22.225 0	47.625 0	73.025 0	98.425 0	123.825 0	149.225 0	174.625 0	200.025 0	225.425 0	250.825 0	276.225 0	301.625 0
57/64	0.890 625	22.621 9	48.021 9	73.421 9	98.821 9	124.221 9	149.621 9	175.021 9	200.421 9	225.821 9	251.221 9	276.621 9	302.021 9
29/32	0.906 25	23.018 8	48.418 8	73.818 8	99.218 8	124.618 8	150.018 8	175.418 8	200.818 8	226.218 8	251.618 8	277.018 8	302.418 8
59/64	0.921 875	23.415 6	48.815 6	74.215 6	99.615 6	125.015 6	150.415 6	175.815 6	201.215 6	226.615 6	252.015 6	277.415 6	302.815 6
15/16	0.937 5	23.812 5	49.212 5	74.612 5	100.012 5	125.412 5	150.812 5	176.212 5	201.612 5	227.012 5	252.412 5	277.812 5	303.212 5
61/64	0.953 125	24.209 4	49.609 4	75.009 4	100.409 4	125.809 4	151.209 4	176.609 4	202.009 4	227.409 4	252.809 4	278.209 4	303.609 4
31/32	0.968 75	24.606 2	50.006 2	75.406 2	100.806 2	126.206 2	151.606 2	177.006 2	202.406 2	227.806 2	253.206 2	278.606 2	304.006 2
63/64	0.984 375	25.003 1	50.403 1	75.803 1	101.203 1	126.603 1	152.003 1	177.403 1	202.803 1	228.203 1	253.603 1	279.003 1	304.403 1

in.	dec. in.	12″	13″	14″	15″	16″	17″	18″	19″	20″	21″	22″	23″
		Millimeter(mm)											
0	0	304.800 0	330.200 0	355.600 0	381.000 0	406.400 0	431.800 0	457.200 0	482.600 0	508.000 0	533.400 0	558.800 0	584.200 0
1/32	0.031 25	305.593 8	330.993 8	356.393 8	381.793 8	407.193 8	432.593 8	457.993 8	483.393 8	508.793 8	534.193 8	559.593 8	584.993 8
1/16	0.062 5	306.387 5	331.787 5	357.187 5	382.587 5	407.987 5	433.387 5	458.787 5	484.187 5	509 587 5	534.987 5	560.387 5	585.787 5
3/32	0.093 75	307.181 2	332.581 2	357.981 2	383.381 2	408.781 2	434.181 2	459.581 2	484.981 2	510.381 2	535.781 2	561.181 2	586.581 2
1/8	0.125	307.975 0	333.375 0	358.775 0	384.175 0	409.575 0	434.975 0	460.375 0	485.775 0	511.175 0	536.575 0	561.975 0	587.375 0
5/32	0.156 25	308.768 8	334.168 8	359.568 8	384.968 8	410.368 8	435.768 8	461.168 8	486.568 8	511.968 8	537.368 8	562.768 8	588.168 8
3/16	0.187 5	309.562 5	334.962 5	360.362 5	385.762 5	411.162 5	436.562 5	461.962 5	487.362 5	512.762 5	538.162 5	563.562 5	588.962 5
7/32	0.218 75	310.356 2	335.756 2	361.156 2	386.556 2	411.956 2	437.356 2	462.756 2	488.156 2	513.556 2	538.956 2	564.356 2	589.756 2
1/4	0.25	311.150 0	336.550 0	361.950 0	387.350 0	412.750 0	438.150 0	463.550 0	488.950 0	514.350 0	539.750 0	565.150 0	590.550 0
9/32	0.281 25	311.943 8	337.343 8	362.743 8	388.143 8	413.543 8	438.943 8	464.343 8	489 743 8	515.143 8	540.543 8	565.943 8	591.343 8
5/16	0.312 5	312.737 5	338.137 5	363.537 5	388.937 5	414.337 5	439.737 5	465.137 5	490.537 5	515 937 5	541.337 5	566.737 5	592.137 5
11/32	0.343 75	313.531 2	338.931 2	364.331 2	389.731 2	415.131 2	440.531 2	465.931 2	491.331 2	516.731 2	542.131 2	567.531 2	592.931 2
3/8	0.375	314.325 0	339.725 0	365.125 0	390.525 0	415.925 0	441.325 0	466.725 0	492.125 0	517.525 0	542.925 0	568.325 0	593.725 0
13/32	0.406 25	315.118 8	340.518 8	365.918 8	391.318 8	416.718 8	442.118 8	467.518 8	492.918 8	518.318 8	543.718 8	569.118 8	594.518 8
7/16	0.437 5	315.912 5	341.312 5	366.712 5	392.112 5	417.512 5	442.912 5	468.312 5	493.712 5	519.112 5	544.512 5	569.912 5	595.312 5
15/32	0.468 75	316.706 2	342.106 2	367.506 2	392.906 2	418.306 2	443.706 2	469.106 2	494.506 2	519.906 2	545.306 2	570.706 2	596.106 2
1/2	0.5	317.500 0	342.900 0	368.300 0	393.700 0	419.100 0	444.500 0	469.900 0	495.300 0	520.700 0	546.100 0	571.500 0	596.900 0
17/32	0.531 25	318.293 8	343.693 8	369.093 8	394.493 8	419.893 8	445.293 8	470.693 8	496.093 8	521.493 8	546.893 8	572.293 8	597.693 8
9/16	0.562 5	319.087 5	344.487 5	369.887 5	395.287 5	420.687 5	446.087 5	471.487 5	496.887 5	522.287 5	547.687 5	573.087 5	598.487 5
19/32	0.593 75	319.881 2	345.281 2	370.681 2	396.081 2	421.481 2	446.881 2	472.281 2	497.681 2	523.081 2	548.481 2	573.881 2	599.281 2
5/8	0.625	320.675 0	346.075 0	371.475 0	396.875 0	422.275 0	447.675 0	473.075 0	498.475 0	523.875 0	549.275 0	574.675 0	600.075 0
21/32	0.656 25	321.468 8	346.868 8	372.268 8	397.668 8	423.068 8	448.468 8	473.868 8	499.268 8	524.668 8	550.068 8	575.468 8	600.868 8
11/16	0.687 5	322.262 5	347.662 5	373.062 5	398.462 5	423.862 5	449.262 5	474.662 5	500.062 5	525.462 5	550.862 5	576.262 5	601.662 5
23/32	0.718 75	323.056 2	348.456 2	373.856 2	399.256 2	424.656 2	450.056 2	475.456 2	500.856 2	526.256 2	551.656 2	577.056 2	602.456 2
3/4	0.75	323.850 0	349.250 0	374.650 0	400.050 0	425.450 0	450.850 0	476.250 0	501.650.0	527.050 0	552.450 0	577.850 0	603.250 0
25/32	0.781 25	324.643 8	350.043 8	375.443 8	400.843 8	426.243 8	451.643 8	477.043 8	502.443 8	527.843 8	553.243 8	578,643 8	604.043 8
13/16	0.812 5	325.437 5	350.837 5	376.237 5	401.637 5	427.037 5	452.437 5	477.837 5	503.237 5	528.637 5	554.037 5	579.437 5	604.837 5
27/32	0.843 75	326.231 2	351.631 2	377.031 2	402.431 2	427.831 2	453.231 2	478.631 2	504.031 2	529.431 2	554.831 2	580.231 2	605.631 2
7/8	0.875	327.025 0	352.425 0	377.825 0	403.225 0	428.625 0	454.025 0	479.425 0	504.825 0	530.225 0	555.625 0	581.025 0	606.425 0
29/32	0.906 25	327.818 8	353.218 8	378.618 8	404.018 8	429.418 8	454.818 8	480.218 8	505.618 8	531.018 8	556.418 8	581.818 8	607.218 8
15/16	0.937 5	328.612 5	354.012 5	379.412 5	404.812 5	430.212 5	455.612 5	481.012 5	506.412 5	531.812 5	557.212 5	582.612 5	608.012 5
31/32	0.968 75	329.406 2	354.806 2	380.206 2	405.606 2	431.006 2	456.406 2	481.806 2	507.206 2	532.606 2	558.006 2	583.406 2	608.806 2

Koken TOOL CO., LTD.